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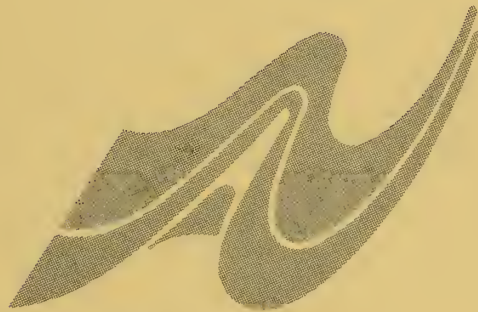
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AIR QUALITY MONITORING  
PROTOTYPE OIL SHALE LEASE TRACTS Ua AND Ub  
AIR QUALITY DATA

VOLUME II of II

For the Period

1 January 1983 - 31 December 1983



RECEIVED

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CRAIG DISTRICT OFFICE  
OIL SHALE PROJECTS OFFICE

Submitted to

Mr. Rees Madsen  
White River Shale Program  
Prudential Building, Suite 500  
115 South Main Street  
Salt Lake City, Utah 84111

TN  
859  
4082  
W425  
1983  
Y42

**AeroVironment Inc.**

145 VISTA AVENUE - PASADENA, CALIFORNIA 91107 USA (213) 449-4392



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AIR QUALITY MONITORING  
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Submitted to

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Prudential Building, Suite 500  
115 South Main Street  
Salt Lake City, Utah 84111

By

AeroVironment Inc.  
145 Vista Avenue  
Pasadena, California 91107



## PREFACE

This volume is the final submission of data acquired during the air quality /meteorology portions of the lease suspension period monitoring program for oil shale tracts Ua and Ub. The period covered runs from 1 January 1983 through 31 December 1983.

### Section II - Air Quality

The following parameters were collected at site A4:

- Sulfur dioxide, SO<sub>2</sub>
- Carbon monoxide, CO
- Oxides of Nitrogen, NO<sub>x</sub>
- Nitric oxide, NO
- Nitrogen dioxide, NO<sub>2</sub>
- Ozone, O<sub>3</sub>
- Total Suspended Particulates, TSP

TSP was also collected at site A10.

Daily average and the peak hourly average concentration values are contained in the data tabulation. Compiled along the bottom of each data tabulation page for the month is the average for each hour. All air quality data is given in micrograms per cubic meter except CO which is expressed in milligrams per cubic meter.



The Monthly Parameter Sheet Key is included to define the various components of the data tabulation sheets. Data technicians and quality control scientists have compared the flagged data with the instrument site logs for notations of abnormal operation to verify that the data is valid. Invalid data has been rejected and a code entered in its place to indicate the reason for the missing data.

Missing data code symbols used on the data sheets are:

CA	Calibration
MT	Maintenance (changing paper, tape, filters)
IM	Instrument Malfunction (not discovered until after data had been collected)
PF	Power Failure (generator failure)
RF	Recording System Failure (chart jams, chart runs out, or tape punch fails)
LI	Local Interference
OS	Off Scale (at top of chart, data presumed good)
OR	Out for Repair (instrument problem has been recognized and the instrument is no longer sampling while being repaired)
IN	Interference (acts of nature)
OE	Operator Error
ZS	Instrument Zero/Span Check
PC	Precision Check
SA	System Audit
IW	Instrument Warm-up









UTAH WHITE RIVER SHALE PROJECT  
Instrument Lower Detection Limit, Data Precision,  
and Lower Limit of Data Validity

Parameter	Instrument	Instrument Lower Detection Limit	Data Precision	Lower Limit of Data Validity
SO <sub>2</sub>	Teco Model 43	25 µg/m <sup>3</sup>	8 µg/m <sup>3</sup>	25 µg/m <sup>3</sup>
NO	Monitor Labs 8440 E	5 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>
NO <sub>x</sub>	Monitor Labs 8440 E	5 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>
NO <sub>2</sub> *	Monitor Labs 8440E	5 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>
O <sub>3</sub>	Monitor Labs 8410 E	2 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>	6 µg/m <sup>3</sup>
CO	Monitor Labs 8310	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
TSP	GMWC-2000H	0.5 µg/m <sup>3</sup>	+6% of load or 1 µg/m <sup>3</sup>	1 µg/m <sup>3</sup>

\* NO<sub>2</sub> concentration calculated by subtracting the NO concentration from the NO<sub>x</sub> concentration.







AIR QUALITY





**SITE A4**



CARBON MONOXIDE (CC:07)  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SIMALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4

JAN, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
\*\*\*\*\*

CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[PC]	.2	.2	.2	.3	.5	.7	.8	.9	1.0	1.0	1.0	.9	.6	1.0
2	.9	.8	.8	.7	.7	.7	.7	.7	.7	.6	.5	.5	.4	.2	.3	.3	.4	.5	.7	.9	.9	[RF]	[RF]	[RF]	.9	.7	1.0
3	.9	.9	.8	.8	.8	.8	.8	.8	.7	.7	.6	.5	.4	.4	.2	.3	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	.9	.7	.9
4	.9	.8	.9	.8	.8	.8	.8	.8	.8	.7	.7	.6	[ZS]	.3	.2	.4	.4	.4	.6	.8	.9	.9	.9	.9	.7	.9	.9
5	.9	.9	.9	.9	.8	.8	.8	.8	.8	.7	.6	.5	.3	.2	.2	.3	.4	.6	.7	.9	1.0	1.0	1.0	1.0	.7	1.0	1.0
6	.8	.7	.5	.6	.8	.9	.9	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	.8	.8	1.0
7	.9	1.0	.9	.9	.9	.8	.7	.7	[RF]	[RF]	[PC]	.7	.7	.7	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	1.0
8	.8	.9	.8	.8	.8	.7	.7	.7	.7	.6	.6	.6	.3	.2	.1	.1	.2	.2	.5	.7	.9	1.1	1.2	1.2	.6	1.2	1.1
9	1.1	1.0	.9	.8	.8	.7	.7	.6	.5	.5	[ZS]	.2	.0	.0	.1	.2	.3	.5	.6	.7	.8	.8	.8	.8	.5	1.1	1.1
10	.8	.7	.7	.6	.6	.5	.5	.5	.5	.4	.4	.2	.0	.0	.0	.1	.2	.4	.6	.7	.9	.9	.9	.9	.5	.9	.9
11	.8	.7	.7	.7	.6	.6	.6	.6	.6	.4	.3	.1	.0	.0	.0	.0	.0	.2	.4	.7	.8	.9	1.0	.9	.5	1.0	1.0
12	.9	.8	.7	.7	.6	.6	.5	.5	.5	.5	.3	[ZS]	.0	.0	.0	.1	.3	.5	.7	.8	.9	1.0	1.0	1.0	.5	1.0	1.0
13	.9	.8	.8	.7	.7	.6	.6	.6	.6	.6	.4	.3	.0	.0	.0	.1	.2	.4	.5	.6	.6	.8	.8	.8	.5	.9	.9
14	.8	.7	.7	.6	.6	.6	.6	.6	.5	.4	.3	.2	.0	.0	.0	.1	.2	.4	.6	.7	.9	.9	.9	.9	.4	.9	.9
15	.9	.8	.7	.7	.6	.6	.6	.6	.5	.4	.4	[ZS]	.2	.2	.2	.3	.3	.3	.4	.4	.6	.7	.8	.8	.5	.9	.9
16	.7	.7	.6	.6	.6	.5	.5	.5	.5	.4	.3	.2	.1	.0	.0	.1	.2	.4	.6	.7	.8	.8	.8	.7	.4	.8	.8
17	.7	.7	.6	.6	.6	.6	.6	.6	.5	.4	.4	[ZS]	.2	.2	.2	.3	.3	.3	.4	.4	.6	.7	.7	.7	.4	.7	.7
18	.5	.5	.6	.6	.6	.6	.6	.5	.5	.5	.3	.2	.0	.0	.0	.1	.3	.4	.6	.7	.7	.7	.7	.4	.7	.4	.7
19	.7	.6	.7	.6	.6	.5	.4	.4	.3	.3	.3	.2	.3	.3	.3	.2	.2	.2	.3	.4	.5	.6	.6	.7	.4	.7	.4
20	.7	.6	.6	.6	.6	.6	.6	.6	.6	.5	.5	.5	.3	[SA]	.3	.3	.2	.5	.5	.4	.4	.4	.4	.4	.4	.5	.7
21	.5	.5	.5	.5	.5	.5	.5	.4	.4	.4	.3	.3	.2	.1	[PC]	.3	.4	.4	.3	.3	.3	.4	.4	.4	.4	.4	.5
22	.4	.5	.5	.5	.5	.5	.6	.6	.5	.4	.3	.2	.0	.0	.0	.2	.4	.4	.6	.7	.8	1.0	.9	.8	.5	1.0	1.0
23	.7	.6	.6	.6	.5	.5	.5	.4	.4	.4	.3	.3	.2	.1	.0	.0	.0	.1	.3	.4	.6	.7	.8	.8	.4	.8	.8
24	.7	.6	.6	.6	.5	.5	.5	.4	.4	.4	.3	.3	.2	.1	.0	.1	.1	.1	.2	.3	.4	.5	.5	.5	.4	.7	.7
25	.5	.5	.4	.4	.4	.4	.5	.5	.5	.4	.3	.2	.1	.0	.0	.0	.0	.0	.2	.4	.6	.6	.6	.6	.3	.6	.6
26	.5	.5	.5	.5	.5	.5	.5	.4	.4	.4	.3	.2	.1	.0	.0	.1	.2	.4	.6	.7	.7	.7	.7	.5	.4	.6	.6
27	.5	.5	.5	.5	.5	.5	.5	.4	.4	.4	.4	.3	.1	.0	.0	.1	.1	.2	.4	.6	.6	.6	.6	.5	.4	.6	.6
28	.7	.6	.5	.5	.5	.5	.4	.4	.4	.4	.4	.4	.1	.0	[CA]	.1	.0	.0	.1	.1	.3	.4	.4	.4	.3	.7	.7
29	.4	.4	.4	.3	.2	.2	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.4	.4	.3	.2	.4	.4
30	.3	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.3	.3	.2	.2	.1	.3	.2
31	.2	.2	.2	.2	.2	.1	.1	.1	.1	.1	[ZS]	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.3	.3	.2	.1	.3	.2
AV	.7	.7	.6	.6	.6	.6	.5	.5	.5	.4	.4	.3	.1	.1	.1	.2	.2	.3	.4	.5	.6	.7	.7	.7	.5	1.2	1.2
SU	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	[ ]

CARBON MONOXIDE (CC:07)  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONHARZA, UTAH  
SITE 4

FEB, 1983

AERONVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
\*\*\*\*\*

CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	.2	.2	.3	.3	.3	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.3	.3	.3	.2	.3
2	.3	.3	.3	.3	.3	.2	.2	.2	.1	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.2	.4	.5	.5	.5	.2	.5
3	.4	.4	.4	.3	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.4	.4	.4	.4	.2	.4
4	.3	.3	.2	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.3	.3	.1	.3
5	.3	.3	.3	.3	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.3	.3	.2	.3
6	.3	.3	.3	.2	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.3	.1	.3
7	.3	.3	.2	.2	.2	.1	.1	.1	.1	.1	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.3	.4	.1	.4
8	.4	.3	.2	.1	.2	.2	.2	.2	.1	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.2	.3	.4	.4	.1	.4
9	.3	.3	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.4	.4	.1	.4
10	.4	.4	.3	.2	.1	.1	.1	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.4	.1	.4
11	.3	.3	.3	.2	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	.4	.1	.4
12	.4	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.3	.1	.4
13	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.4	.3	.3	.1	.4
14	.3	.2	.1	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.1	.3
15	.4	.2	.2	.3	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.1	.4
16	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.1	.3
17	.2	.2	.1	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2
18	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
19	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2
21	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
22	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[CA]	[CA]	[CA]	[CA]	.1	.1	.1	.1	.1	.2	.3	.4	.5	.6	.1	.6

mV .2 .2 .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .1 .2 .2 .2 .1 .6  
SD .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .1 .2 .2 .2 .1 .6

CARBON DIOXIDE (CO2) MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4  
MAR, 1963  
AEROENVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
\*\*\*\*\*

CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	.6	.5	.6	.6	.6	.6	.6	.6	.5	.5	.3	.1	.0	.0	.1	.2	.2	.2	.2	.4	.4	.5	.5	.5	.4	.6	
2	.5	.5	.5	.7	.6	.6	.6	.5	.4	.3	.2	.1	.2	.2	.3	.4	.5	.5	.5	.4	.5	.5	.5	.5	.5	.4	.5
3	.5	.6	.6	.6	.6	.6	.6	.5	.5	.5	.4	.4	.3	.2	.2	.2	.2	.3	.3	.4	.4	.4	.4	.4	.4	.5	.6
4	.5	.6	.6	.7	.7	.7	.7	.7	.6	.6	.6	.4	.4	.3	.2	.2	.2	.1	.1	.1	.2	.2	.2	.2	.2	.4	.7
5	.4	.4	.5	.5	.5	.5	.5	.5	.4	.3	.2	.1	.0	.0	.2	.2	.2	.2	.2	.4	.5	.5	.5	.5	.5	.5	.5
6	.4	.4	.4	.5	.5	.5	.5	.4	.3	.2	.1	[ZS]	.1	.2	.2	.2	.2	.2	.2	.4	.4	.0	.5	.5	.5	.3	.5
7	.5	.6	.6	.6	.6	.6	.6	.6	.6	1.1	1.7	.2	.0	.0	.1	.1	.1	.2	.3	.4	.5	.6	.6	.6	.6	.6	.6
8	.6	.6	.6	.6	.6	.6	.6	.6	.6	.5	[ZS]	.2	.1	.1	.1	.2	.3	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6
9	.6	.6	.6	.6	.6	.6	.6	.6	.6	.5	.3	.2	.1	.1	.1	.3	.3	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6
10	.6	.6	.6	.6	.6	.6	.6	.6	.6	.5	.3	.2	.1	.1	.1	.3	.3	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6
11	.6	.6	.6	.6	.6	.6	.6	.6	.6	.5	.4	.3	.3	.2	.2	.2	.3	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6
12	.7	.7	.7	.7	.7	.7	.7	.6	.6	.5	.3	.2	.2	.2	.2	.2	.2	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6
13	.7	.7	.7	.7	.7	.7	.7	.7	.6	.5	.4	.3	.3	.2	.2	.3	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6	.6
14	.6	.6	.6	.6	.6	.6	.6	.6	.6	.5	.6	.7	.7	.7	.7	.7	.7	.7	.7	.7	.8	.8	.8	.8	.8	.8	.8
15	.7	.7	.7	.7	.7	.7	.7	.6	.6	.6	.5	.5	.4	[DA]	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6	.6	.6	.6
16	.5	.5	.5	.5	.5	.5	.5	.5	.5	.4	.3	[SA]	.0	.0	.3	.3	1.3	1.6	1.3	1.0	.7	.6	.6	.6	.6	1.9	
17	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.5	.4	.4	.4	.4	.4	.5	.5	.6	.7	.7	.7	.7	.7	.7	.6
18	.7	.7	.7	.7	.7	.7	.6	.6	.6	.6	.5	.4	.4	.4	.3	.3	.3	.4	.5	.7	.7	.8	.8	.8	.8	.8	.8
19	.7	.7	.7	.7	.7	.6	.6	.6	.5	.5	[ZS]	.3	.0	.0	.0	.0	.0	.1	.3	.5	.5	.7	.8	.8	.8	.8	.8
20	.8	.8	.8	.8	.7	.7	.6	.6	.5	.4	.2	.0	.0	.0	.0	.0	.1	.1	.2	.3	.4	.6	.6	.6	.6	.6	.6
21	.6	.6	.6	.5	.5	.5	.5	.4	.4	.4	.2	.0	[ZS]	.1	.0	.0	.0	.1	.2	.3	.4	.5	.6	.6	.6	.6	.6
22	.6	.6	.6	.5	.5	.5	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.6	.6	.6	.6	.6
23	.7	.6	.6	.5	.5	.4	.4	.4	.3	.3	.1	.0	.0	.0	.1	.2	.3	.4	.5	.6	.6	.6	.6	.6	.6	.6	.6
24	.5	.5	.4	.4	.4	.4	.4	.4	.4	.3	.2	.1	[ZS]	.0	.0	.1	.1	.1	.2	.3	.4	.4	.4	.4	.4	.3	.5
25	.4	.4	.4	.4	.4	.4	.4	.3	.3	.3	.2	.0	[ZS]	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.2	.2	.2
26	.2	.3	.3	.3	.3	.4	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.2	.2	.2	.2	.2
27	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.2	.2	.2	.2	.2
28	.1	.2	.2	.2	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.3	.3	.3	.3	.3
29	.4	.3	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.4	
30	.2	.2	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AV	.5	.5	.5	.5	.5	.5	.5	.5	.4	.4	.3	.2	.2	.1	.1	.2	.2	.3	.3	.4	.4	.5	.5	.5	.5	.4	1.7
SD	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.2	.2	.2	.2	.3	.3	.3	.3	.2	.2	.2	.2	.2	.3	[ ]

CARBON MONOXIDE [CC:07]  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

APR, 1983

AEROENVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
\*\*\*\*\*

CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.4	.4	.4	.4	.3	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.4	.4	.4	.4	.3	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.3	.4	.3	.3	.3	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.6	.6	.0	.5	.5	.5	.5	.4	.3	.2	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.6	.5	.4	.4	.4	.4	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	.4	.3	.3	.3	.3	.3	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.2	.2	.3	.3	.2	.2	.2	.2	.2	.2	.2	.2	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.1	.1	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.1	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.1	.2	.2	.2	.3	.4	.3	.4	.5	.3	[RF]	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.2	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	[ZS]	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AV	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.7
SD	.2	.2	.2	.2	.2	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.2	.2	.2	.1	.1



CARBON MONOXIDE (CC:07)  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHARZA, UTAH  
SITE 4

MAY, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.3
2	.3	.3	.2	.2	.2	.1	.2	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.1	.5	
3	.1	.3	.2	.3	.3	.1	.1	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.1	.3
4	.1	.3	.2	.3	.3	.1	.1	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
5	.0	.0	.0	.0	.0	.0	.2	.2	.1	[ZS]	.1	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0	.2
6	.0	.1	.1	.2	.3	.2	.2	.2	.1	[ZS]	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.3	.1	.3
7	.3	.2	.2	.2	.1	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.3
8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.0	.2
9	.3	.3	.1	.0	.1	.0	.0	.1	.0	[ZS]	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.1	.3
10	.1	.1	.1	.2	.5	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.1	.2	.1	.5
11	.2	.0	.0	.3	.2	.0	.0	.3	.3	.5	.4	.5	.3	.1	.2	.0	.1	.1	.1	.1	.0	.0	.0	.2	.2	.5
12	.0	.2	.2	.2	.2	.1	.2	.4	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
13	.0	.0	.2	.2	.1	.1	.1	.1	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
14	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
15	.2	.0	.2	.1	.0	.0	.1	.0	.0	[ZS]	.2	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.1	.1	.2
16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
17	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
18	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
19	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	[ZS]	1.6	1.7	1.5	1.2	1.1	1.0	1.0	.9	.9	1.0	1.0	1.1	1.2	1.2	1.2	1.7
20	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.0	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.3
21	1.2	1.2	1.3	1.3	1.3	1.3	1.1	1.0	.9	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.3	1.1	1.3
22	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.0	.8	.8	.8	.8	.8	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.0	1.3
23	1.2	1.2	1.1	1.1	1.1	1.1	1.0	.9	.9	.9	.9	.9	.9	.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.2
24	1.0	1.1	1.0	1.0	1.0	1.0	.9	.8	.6	[ZS]	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.9	1.1
25	.9	.9	1.0	1.0	1.0	1.0	.9	.7	.6	.5	.7	[ZS]	1.0	1.0	1.0	1.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	1.0
26	.9	.9	.9	.9	.9	.9	.8	.6	.5	.5	.6	.7	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.8	.8	.8	.9
27	.8	.8	.8	.9	.9	.9	.8	.6	.5	.4	[PC]	.8	.8	.8	.9	.9	.8	.8	.8	.8	.8	.8	.8	.7	.8	.9
28	.6	.6	.6	.6	.6	.6	.6	.5	.3	.3	.5	.6	.7	.8	.8	.7	.6	.6	.6	.6	.6	.6	.6	.5	.6	.8
29	.5	.5	.6	.6	.6	.6	.6	.4	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6	.6	.6	.6	.5	.5	.5	.5	.6
30	.5	.5	.5	.5	.5	.5	.5	.4	[ZS]	.9	1.0	.7	.4	.3	.3	.3	.3	.4	.4	.4	.4	.4	.5	.6	.5	1.0
31	.6	.6	.6	.6	.5	.5	.4	.3	.2	.1	.0	.1	.1	.2	.3	.4	.5	.5	.5	.5	.5	.5	.5	.5	.5	.6
AV	.4	.5	.5	.5	.4	.4	.4	.4	.3	.4	.3	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	1.7
SD	.5	.5	.5	.5	.5	.5	.5	.4	.4	.3	.5	.5	.5	.4	.4	.4	.4	.4	.4	.4	.4	.5	.4	.4	.4	1.1

CARBON MONOXIDE LOC:071  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JUN, 1983

AEROENVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.4	2.7	2.7	2.7	2.7	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7
2	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.3	2.1	2.1	2.2	2.2	2.2	2.5	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.5	2.7
3	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.3	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.6
4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	2.2	2.3	2.2	2.2	2.2	2.5	2.4	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5
5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
6	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.0	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
7	2.3	2.2	2.2	2.2	2.2	2.1	2.1	1.9	1.8	1.8	1.8	1.8	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.3
8	2.1	2.1	2.2	2.2	2.1	2.1	2.0	1.9	1.8	1.7	1.8	2.0	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.2
9	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1
10	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.6	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
11	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.6	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
12	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0
13	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.4	2.0	1.7	1.7	1.6	1.5	1.5	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.8	1.9
14	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.8
15	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.5	1.4	1.3	1.3	1.5	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.8
16	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.4	1.3	1.4	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8
17	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.2	1.2	1.2	1.4	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8
18	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5
19	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5
20	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.1	1.0	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4
21	1.3	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3
22	1.3	1.2	1.2	1.1	1.1	1.2	1.1	1.0	1.0	1.1	1.2	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3
23	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
24	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
25	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
26	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
27	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
28	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
29	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
30	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.5
AV	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.3	1.3	1.5	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5
SD	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6



CARBON MONOXIDE [CC:07]  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JUL, 1983

AEROVIRONMENT INC.

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\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	.6	.5	.6	.6	.6	.6	.6	.5	.3	.4	[ZS]	.5	.5	.5	.5	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
2	.5	.4	.5	.5	.5	.4	.4	.4	.4	.4	.5	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
3	.4	1.2	1.0	.7	.3	.0	.0	.0	.0	.0	.1	.2	.3	.4	.4	.4	.3	.3	.3	.3	.4	.6	1.0	1.3	.4	1.3
4	1.3	.6	.6	.6	.6	.5	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
5	.6	.6	.6	.6	.6	.5	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
6	.2	.2	.2	.2	.2	.1	.1	.1	.1	.1	[CA]	.1	.2	.2	.2	.2	.4	.3	.3	.3	.2	.2	.2	.2	.2	.4
7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.2	.2	.1	.0	.0	.0	.1	.1	.1	.2
8	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1
9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.4	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[SA]	[SA]	[SA]	[SA]	[SA]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.2	.3	.3	.2	.1	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AV	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.3
SD	.3	.3	.3	.2	.2	.2	.2	.1	.1	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2



CARBON MONOXIDE [CC:07]  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BORAHZA, UTAH  
SITE 4  
SEP, 1983  
AEROVIRONMENT INC.

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\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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DY	CLOCK HOUR [LOCAL STANDARD TIME]																								AVE	PEAK		
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[CA]	[CA]	.2	.2	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.2	.3	
2	.2	.2	.1	.1	.1	.2	.2	.1	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.3
3	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2
4	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
7	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2
8	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	[ZS]	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2
9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.2	.3	.2	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AV	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
SD	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1

CARBON MONOXIDE (CC:07)  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHARZA, UTAH  
SITE 4

OCT, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
\*\*\*\*\*

CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK				
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[CA]	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5		
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[CA]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
6	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[PA]	[MT]	[MT]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	[IW]	.0	
7	1.4	1.4	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.4	[CA]	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.6	1.9	1.9		
8	1.1	1.1	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.0	[ZS]	1.3	1.2	1.0	1.3	1.2	1.3	1.2	1.1	1.3	1.2	1.2	1.2	1.1	1.2	1.1	1.2	1.5		
9	.7	.7	.7	.7	.7	.7	.7	.7	.7	.6	.6	.6	.6	.7	.6	.5	.6	.5	.4	.4	.3	.4	.4	.4	.4	.4	.6	.7		
10	.3	.3	.3	.3	.3	.2	.2	.2	.1	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0		
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
15	.2	.2	.2	.1	.1	.1	.1	.2	.2	.1	.1	.1	.1	.2	.2	.3	.4	.5	.5	.6	.7	.7	.6	.6	.6	.6	.3	.7		
16	.5	.5	.5	.5	.5	.6	.6	.6	.6	.5	.5	.5	.6	.7	.8	.8	.8	.8	.8	.8	.9	.9	.9	.9	.9	.9	.7	1.0		
17	.9	1.0	.4	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0		
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	.9	.9	.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	.9	1.2		
31	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	[CA]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.2		
AV	.2	.2	.2	.2	.2	.2	.2	.2	.2	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	1.9	
SD	.4	.4	.4	.4	.4	.4	.4	.4	.4	.3	.5	.5	.5	.4	.5	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	1.1	

CARBON MONOXIDE [CC:07]  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4

NOV, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
\*\*\*\*\*

CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[CA]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.1	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.2	.2	.1	.1	.1	.1	.2
AV	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
SD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1



CARBON MONOXIDE [CC:07]  
MILLIGRAMS PER CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

DEC, 1983

AEROSURVEILLANCE INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.1	.1	.1	.1	.1	.2	.2	.2	.2	.1	.2
2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[CA]	.0	.0	.0	.2	.2	.2	.2	.1	.2	.1	.1	.2
4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[PC]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[Z6]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	[ZS]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AV	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
SD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1

NITRIC OXIDE (CC109)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JAN, 1983

AEROENVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[CA]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	0	0
7	0	0	0	0	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
14	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	[SA]	[SA]	[SA]	[SA]	[SA]	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	[SA]	[SA]	[SA]	[PC]	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	[CA]	[CA]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

NITRIC OXIDE (CC103)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BOHANZA, UTAH  
 SITE 4

FEB, 1983

AEROENVIRONMENT INC.

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



HITRIC OXIDE [CC.08]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

MAR, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	[CA]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]
13	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]
14	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]
15	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
16	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
17	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
18	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
19	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
20	8	11	9	10	10	10	10	10	10	9	9	8	8	8	8	7	5	7	8	8	8	8	10	9	9	11
21	9	9	10	9	9	11	11	10	10	10	9	8	8	8	8	7	7	7	8	8	8	8	9	9	9	11
22	9	9	9	9	9	9	9	9	8	7	7	8	6	6	6	7	6	6	7	6	6	8	9	8	9	
23	10	9	9	9	9	8	9	9	9	7	7	7	6	6	6	6	7	8	7	9	8	9	9	9	10	
24	10	9	9	9	9	10	9	10	9	10	10	9	[ZS]	7	7	8	8	7	8	8	8	10	9	9	10	
25	9	9	9	9	9	10	9	10	9	10	9	8	7	7	7	6	6	6	7	7	7	8	7	7	8	
26	8	8	9	9	9	9	8	9	7	8	4	7	6	8	8	7	7	8	7	8	7	8	6	7	9	
27	8	9	9	8	8	9	8	9	9	7	7	7	6	7	6	7	6	7	7	8	8	6	6	7	9	
28	8	8	9	8	8	8	7	8	9	8	8	8	8	7	8	7	8	7	8	8	8	10	10	10	10	
29	11	11	11	10	11	10	11	11	10	9	9	8	8	[ZS]	7	8	7	8	8	7	9	10	10	9	11	
30	11	11	11	12	11	10	10	10	9	10	9	8	9	8	9	8	9	8	9	10	8	9	8	9	9	12
31	9	9	9	9	9	10	10	10	12	10	10	10	10	[ZS]	8	11	10	10	10	11	10	10	12	11	10	12
AV	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4
SD	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4

NITRIC OXIDE (00108)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

APR, 1983

AEROVIRONMENT INC.

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\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	12	12	12	11	11	12	12	11	12	11	9	9	10	[CA]	7	7	6	7	3	5	7	7	7	7	9	12
2	8	8	8	9	7	8	8	8	8	7	7	6	5	6	6	6	6	6	6	6	5	6	6	6	7	9
3	7	8	8	9	9	9	9	9	9	8	8	7	8	7	4	7	8	8	8	9	8	8	9	9	8	9
4	8	8	10	10	9	10	10	10	9	10	[CA]	[CA]	[CA]	[CA]	6	6	8	8	7	8	7	9	9	9	10	
5	8	8	8	8	7	7	7	7	7	7	[CA]	[CA]	4	4	4	3	8	8	7	7	5	5	5	5	6	
6	5	5	6	6	5	5	7	7	6	6	5	4	7	7	8	8	7	5	2	1	4	4	4	4	5	
7	4	5	5	7	5	5	5	4	6	5	[SA]	[SA]	[SA]	[SA]	5	4	4	5	5	5	5	5	5	5	7	
8	5	5	5	5	5	5	5	5	5	5	5	5	4	3	2	1	3	3	1	2	3	2	3	3	6	
9	4	3	2	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
10	3	5	4	4	5	3	2	4	3	5	3	[ZS]	4	4	4	3	2	3	3	3	5	4	5	4	5	
11	4	5	4	5	5	4	6	5	3	5	4	3	3	2	3	3	3	3	4	6	5	5	5	6	4	
12	5	5	4	5	6	5	5	6	5	5	6	[ZS]	5	3	2	3	3	5	5	6	5	5	5	6	4	
13	5	6	6	6	7	6	7	6	5	5	5	5	5	1	3	2	3	3	3	3	3	4	5	5	7	
14	7	6	6	6	6	7	7	6	5	5	5	5	5	1	3	2	0	1	1	3	3	4	5	5	7	
15	0	0	0	0	3	0	3	2	4	0	0	[ZS]	0	0	0	0	0	1	0	0	0	0	0	0	1	
16	0	4	4	0	1	1	1	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	
17	0	0	0	0	0	2	0	5	0	0	0	2	0	2	0	1	0	0	0	0	0	2	2	0	1	
18	0	0	1	0	1	1	3	1	1	0	0	1	[ZS]	0	0	0	0	0	1	0	0	0	0	0	3	
19	0	0	0	0	1	2	2	2	1	0	0	1	0	0	0	0	0	2	0	3	0	0	0	0	1	
20	0	0	1	3	2	4	2	5	7	8	4	[RF]	[ZS]	0	4	0	1	2	0	0	0	0	0	0	2	
21	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	1	2	0	0	0	3	3	0	0	1	
22	0	0	0	4	0	3	0	0	0	1	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	4	
23	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	2	0	0	0	0	[ZS]	1	3	1	1	0	0	0	0	0	0	0	0	0	3	
28	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
29	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	
AV	3	3	3	3	3	4	3	4	3	3	3	3	2	2	2	2	2	2	2	2	2	3	3	3	3	
SD	3	4	4	4	3	3	4	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

NITRIC OXIDE (CC:00)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONARIZA, UTAH  
SITE 4

MAY, 1983

AEROSOL ENVIRONMENT INC.

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\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	2	
2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
3	4	7	5	3	2	2	2	3	4	3	3	4	5	3	3	3	2	2	2	4	6	3	3	8	2	8	
4	5	5	8	5	5	5	8	6	4	4	2	2	2	4	4	3	5	5	5	4	6	7	7	4	4	7	
5	5	5	8	5	5	5	8	6	4	4	2	2	2	4	4	3	5	5	5	4	6	7	7	4	4	8	
6	4	3	4	4	4	4	4	4	3	3	3	3	3	4	4	4	4	4	3	1	1	4	4	4	4	9	
7	5	4	4	4	4	4	4	4	4	3	6	3	7	4	3	6	4	7	4	4	2	8	4	4	4	8	
8	4	4	4	4	4	4	4	3	4	2	2	3	1	3	2	2	2	4	0	1	4	2	3	6	3	6	
9	6	4	4	3	2	3	4	7	1	[ZS]	2	1	6	6	0	1	6	0	1	3	4	4	4	4	4	7	
10	2	4	4	3	6	6	4	3	3	2	4	2	6	4	3	1	2	2	2	6	1	2	7	3	3	7	
11	2	4	3	3	1	2	1	1	6	4	3	6	3	4	4	7	4	7	6	4	4	6	6	6	6	7	
12	7	6	4	3	7	6	7	8	6	[ZS]	4	6	4	2	0	4	2	3	4	4	3	1	3	7	5	8	
13	6	6	6	6	4	4	4	4	7	4	[CA]	[CA]	6	4	2	3	3	8	6	2	0	0	0	3	4	8	
14	0	2	4	3	3	3	4	4	4	2	7	5	7	0	0	1	3	5	4	7	3	3	1	7	7	7	
15	4	5	1	3	4	6	4	3	6	5	2	4	4	4	4	4	4	5	6	4	4	2	0	4	4	6	
16	5	4	4	5	2	2	4	3	1	2	[ZS]	6	6	5	1	3	0	0	2	6	3	2	2	6	6	6	
17	1	5	4	6	2	2	2	6	4	6	3	6	2	2	2	4	0	0	0	2	2	3	2	2	3	6	
18	0	0	0	3	4	3	0	2	2	3	1	4	0	0	0	4	0	0	0	1	3	3	4	5	2	5	
19	3	1	3	3	3	3	2	3	3	[ZS]	4	3	1	2	2	3	1	1	1	1	2	2	2	2	2	4	
20	1	2	2	3	3	3	3	2	1	3	3	2	2	1	1	2	0	1	1	1	3	2	1	1	2	3	
21	2	2	2	2	2	2	3	2	0	3	1	0	1	2	1	1	1	1	1	1	1	1	1	1	1	3	
22	2	2	2	2	2	2	1	3	2	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	3	
23	2	1	1	1	1	1	1	0	3	2	0	1	1	1	1	1	0	1	2	1	1	1	1	1	1	3	
24	1	1	1	1	1	1	1	1	2	1	[ZS]	3	3	1	1	1	2	2	0	1	1	1	1	1	1	3	
25	2	1	1	1	1	1	0	1	2	2	2	[ZS]	1	2	1	1	0	0	0	1	1	1	1	1	2	2	
26	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	3	0	1	1	1	3	
27	1	0	1	1	1	1	1	1	1	1	1	[PC]	1	1	1	1	1	1	2	2	1	1	1	1	2	2	
28	1	0	1	1	1	1	1	1	0	0	1	1	2	1	1	2	1	0	1	0	0	0	0	0	0	1	2
29	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	0	0	1	0	0	1	2	
30	0	1	1	1	1	1	1	1	[ZS]	0	1	0	2	1	2	1	1	1	1	1	1	1	2	2	1	2	
31	2	2	3	1	2	2	3	3	1	2	1	1	1	1	0	1	0	0	0	1	1	2	2	1	1	3	
AV	2	3	3	3	3	3	3	3	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	3	9	
SD	2	2	2	2	2	2	2	2	2	2	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	1	

NITRIC OXIDE [CC:03]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

JUN, 1983

AEROENVIRONMENT INC.

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	1	1	2	1	1	1	1	1	1	1	1	[CA]	1	1	1	1	1	1	1	0	0	0	1	0	1	2
2	1	1	0	0	3	1	1	1	0	2	1	1	0	1	0	0	0	1	1	0	0	0	1	0	1	1
3	1	1	1	0	1	1	1	0	0	0	1	0	[ZS]	0	0	1	1	1	1	0	0	0	1	0	1	1
4	2	1	1	2	1	2	1	2	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	2
5	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	0	1	1	1	1	1
6	0	1	1	1	0	0	1	1	4	2	[ZS]	1	1	1	0	1	2	1	1	1	0	1	1	1	1	4
7	1	1	1	1	1	1	1	3	4	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	4
8	1	0	2	1	1	2	1	1	1	0	[ZS]	1	2	1	1	0	1	1	0	1	1	0	1	1	1	4
9	1	0	1	1	2	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	2
10	0	2	2	1	1	0	2	0	0	[ZS]	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	1	1	0	1	1	0	1	0	0	1	0	0	2	1	1	1	1	0	0	0	1	1	1	2
12	0	0	1	2	2	1	1	0	1	0	0	0	0	0	0	0	2	1	1	0	2	1	2	0	1	2
13	1	2	3	2	2	2	3	2	0	0	[ZS]	2	0	1	0	0	0	0	0	0	0	1	1	1	1	3
14	1	2	2	1	2	2	0	2	3	2	0	2	2	2	1	1	1	1	1	0	0	0	0	0	1	2
15	1	1	1	1	0	1	1	0	2	1	1	1	0	0	0	0	2	0	1	1	1	0	0	0	1	2
16	1	0	1	1	1	1	1	1	0	1	2	0	2	1	0	2	0	0	2	1	0	1	0	0	1	2
17	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	1	1	2
18	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	1	1	1	1	2
19	0	0	0	0	1	0	0	0	1	2	0	0	1	0	0	1	0	0	1	0	0	1	1	0	0	2
20	0	0	2	1	0	0	2	0	2	1	0	0	1	1	0	1	2	0	1	0	0	0	0	0	1	2
21	0	0	0	0	0	0	1	0	1	2	0	0	1	2	1	1	0	0	1	1	1	1	1	1	1	2
22	1	1	0	0	0	2	0	0	1	[ZS]	2	2	0	1	0	1	0	1	1	1	1	1	1	2	1	2
23	0	0	0	0	0	1	1	2	1	0	0	1	0	0	1	0	1	0	2	1	1	1	0	1	1	2
24	0	1	0	1	0	0	1	0	1	0	0	[PC]	1	1	2	0	0	1	0	0	1	0	0	0	0	2
25	0	0	1	0	2	1	1	0	0	2	0	2	1	1	1	2	1	1	1	1	1	0	1	0	1	2
26	1	1	0	0	1	1	1	1	1	0	0	1	0	1	1	0	0	0	1	2	0	0	1	0	0	2
27	0	1	0	1	1	1	1	1	1	1	1	[ZS]	2	1	0	0	2	0	0	0	0	0	0	0	1	2
28	0	0	0	1	1	1	1	2	0	0	0	1	1	0	1	1	1	0	0	0	1	1	1	1	1	2
29	1	0	0	2	1	1	1	0	0	0	1	[ZS]	0	0	1	0	1	1	2	1	1	2	1	1	1	2
30	1	1	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	1	1	1	1	1	0
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NITRIC OXIDE [CC:08]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

JUL, 1983

AEROVIRONMENT INC.

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	1	0	1	0	1	0	0	0	0	1	2	1	0	1	2	0	1	0	0	1	1	1	1	2
2	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	2	1	0	0	0	0	0	2
3	0	1	1	0	0	1	1	0	1	0	0	1	1	0	1	1	0	0	1	0	0	4	5	5	1	5
4	6	5	4	3	2	1	1	0	0	1	0	0	4	5	5	4	5	5	5	6	5	5	5	3	6	
5	5	5	5	5	5	5	5	5	5	6	4	1	1	1	1	0	0	0	0	0	1	0	0	1	3	
6	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
7	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	
8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
9	2	2	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	1	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	2	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
31	1	0	1	1	2	1	1	1	2	1	1	1	1	1	1	2	1	1	2	2	2	2	2	2	1	
AV	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	6	
SD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	



NITRIC OXIDE (CC:08)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHAINZA, UTAH  
SITE 4

AUG, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

LY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	3	5	4	3	2	3	4	3	5
2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	2	2	1	1	1	1	1	1	2	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3
6	3	2	2	2	2	3	2	1	1	0	1	2	1	1	1	1	1	1	1	1	0	1	1	1	1	3
7	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
8	1	1	2	1	1	1	1	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
9	2	2	4	4	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
10	0	2	3	3	2	3	3	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5
11	2	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	1	1	2	1	1	1	0	2	2	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2
13	0	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
14	1	2	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	4
15	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
16	1	2	2	2	2	3	3	3	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5
17	1	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
18	2	1	0	1	1	1	2	2	2	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
19	2	2	1	1	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
20	3	3	2	2	2	2	2	3	5	4	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5
21	2	1	1	2	1	1	2	2	2	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
22	1	0	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	1	0	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	0	0	0	0	1	0	0	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
27	0	1	1	1	0	1	1	1	1	2	1	1	0	0	0	0	3	3	2	1	0	0	0	0	0	1
28	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
29	0	0	0	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30	0	0	0	0	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	3	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5
AV	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3
SD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NITRIC OXIDE (CC106)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

SEP, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	1	1	0	0	0	0	0	1	2	2	0	1	1	1	0	1	1	1	1	2	1	4	2	1	4
2	0	2	0	1	0	0	0	1	3	1	[CA]	[CA]	1	1	1	0	1	1	1	1	1	1	1	1	0	1
3	0	0	0	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1	0	0	0	0	0	1
4	1	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	2	2	1	1	2	1	3
5	1	1	1	1	1	1	1	1	1	1	1	[ZS]	1	2	2	1	2	2	3	2	1	2	2	2	1	3
6	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	3	2	3	3	2	2	2	1
7	2	1	1	2	2	2	2	3	2	1	0	9	3	2	2	2	2	2	2	2	2	2	2	2	2	9
8	0	0	0	0	0	0	0	1	2	2	1	1	3	2	3	2	2	2	2	2	0	0	0	0	0	6
9	0	0	0	0	0	0	0	0	1	0	[ZS]	0	1	0	0	0	2	2	2	2	2	1	0	0	0	2
10	0	0	0	0	0	0	0	0	0	7	4	0	0	1	1	2	2	2	2	2	0	0	0	0	0	7
11	0	0	0	0	0	0	0	0	0	[ZS]	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
13	1	2	3	1	0	0	0	0	0	2	[ZS]	1	1	1	1	1	0	1	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	0	0	1	4	[ZS]	2	2	1	1	1	0	1	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	0	2	2	[ZS]	3	2	2	2	2	2	1	2	0	0	0	0	0	0	6
16	0	0	0	0	0	0	0	0	0	0	6	2	2	2	2	2	2	1	2	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	2	[PC]	2	2	2	2	0	1	1	0	0	0	0	0	0	0	2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	0
19	2	1	0	0	0	0	0	0	0	2	0	3	2	2	2	2	4	3	2	2	4	3	2	1	2	0
20	0	0	0	0	0	0	0	0	0	[ZS]	0	0	1	2	3	3	3	3	5	5	3	3	2	0	0	6
21	0	0	0	0	0	0	0	0	0	0	2	[ZS]	0	5	6	6	5	5	5	5	3	2	0	0	0	2
22	0	0	0	0	0	0	0	0	0	0	[CA]	[CA]	0	1	2	0	0	0	0	0	0	0	0	0	0	2
23	0	1	2	1	2	2	1	1	2	[CA]	[CA]	[CA]	1	2	3	2	2	2	1	0	0	0	0	0	0	3
24	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	1
25	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	1
26	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	1
27	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	1
28	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	1
29	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	1
30	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	1
AV	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	1	2	2	2	1	1	1	1	1	0	9
SD	1	1	1	1	1	1	1	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1





NITRIC OXIDE [CC.03]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

NOV, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	19	19	20	21	22	23	AVE	PEAK	
1	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
2	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
3	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
4	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
5	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
6	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
7	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
8	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
9	0	0	0	0	0	0	0	0	0	0	[CA]	[CA]	1	0	0	4	3	1	1	1	1	0	0	0	0	2	5
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	[PC]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0

HITRIC OXIDE (CC:00)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

DEC, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
18	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
27	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
28	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
31	3	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AV	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NITROGEN DIOXIDE (CC109)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHARZA, UTAH  
SITE 4

JAN, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK		
1	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	
4	0	0	0	0	0	0	0	0	0	0	2	[ZS]	1	1	4	5	3	0	0	2	0	0	0	0	0	1	5	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	11	8	5	4	2	0	0	0	0	0	2	11	
6	0	0	0	0	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	5	18	6	4	0	0	0	0	0	0	0	0	0	1	18
12	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20
14	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NITROGEN DIOXIDE (CC:09)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

FEB, 1983

AEROVIROHMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK			
1	0	0	0	0	0	0	0	0	0	0	5	0	0	2	2	3	0	4	0	0	0	0	0	0	0	0	5		
2	0	0	0	0	0	0	0	0	0	0	0	7	[CA]	[CA]	3	3	1	4	3	2	2	4	2	3	0	0	1	7	
3	0	0	1	0	0	0	0	0	0	2	[CA]	[CA]	6	5	5	7	8	8	2	1	0	0	0	0	0	0	2	8	
4	0	0	0	0	0	0	0	0	0	3	[CA]	6	2	2	3	3	5	5	3	3	3	3	4	5	0	0	2	6	
5	1	4	5	4	0	0	0	0	0	0	0	0	3	2	3	2	2	2	2	0	1	0	0	0	0	0	1	5	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	3	3	2	0	0	0	0	0	0	0	1	3	
7	0	0	0	0	0	0	0	0	3	1	4	[CA]	2	2	16	5	3	2	2	1	0	0	0	0	0	0	2	16	
8	0	3	1	3	3	5	0	0	0	0	0	2	2	2	4	6	5	7	5	2	0	0	0	0	4	2	7		
9	0	2	0	0	0	0	0	0	0	0	0	8	5	[ZS]	3	3	2	6	5	3	1	0	0	0	0	2	9		
10	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	3	4	2	1	0	0	0	0	0	0	0	1	9	
11	0	0	0	0	0	0	0	0	0	0	0	4	1	3	1	2	1	3	0	0	0	0	0	0	0	0	1	4	
12	0	0	0	0	0	0	0	0	0	0	0	3	1	2	3	3	2	3	1	0	0	0	0	0	0	0	1	3	
13	0	0	0	0	0	0	0	0	0	0	0	2	4	3	4	3	2	5	1	0	0	0	0	0	0	0	1	5	
14	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	1	3	2	1	1	1	0	1	0	0	0	0	0	1	3	
15	0	0	0	0	0	0	0	0	0	0	0	0	4	2	4	1	2	0	0	0	0	0	0	0	0	0	1	4	
16	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	3	4	6	5	3	2	7	0	0	0	0	0	0	1	12	
17	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	3	2	2	0	0	0	0	0	0	0	1	7	
18	0	0	0	0	0	0	0	0	0	0	0	1	10	1	0	0	1	1	1	0	0	0	0	0	0	0	1	10	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	2	2	1	3	2	2	2	2	1	1	0	0	0	0	0	1	16	
SD	2	1	1	1	1	1	0	0	1	1	1	3	2	1	3	2	2	2	3	1	2	1	1	1	1	1	1	2	1

NITROGEN DIOXIDE (CC:09)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

MAR, 1983

AEROSOL ENVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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DY	CLOCK HOUR [LOCAL STANDARD TIME]																								AVE	PEAK
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]
14	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]
15	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]
16	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
17	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
18	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
19	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	8	12	7	5	6	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
27	9	3	6	7	13	12	15	17	16	8	1	3	7	5	6	9	9	10	12	9	10	13	13	9	9	17
28	10	12	18	31	20	26	34	44	41	21	12	10	5	9	7	8	8	4	9	8	2	1	1	0	14	44
29	0	0	1	1	1	6	3	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	2	0	0	2	3	5	3	3	3	3	4	5	4	3	4	3	1	3	1	3	4	7	6	4	3
31	6	4	3	3	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	1	1	1	2	2	2	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
SD	3	3	4	6	5	6	7	9	9	5	3	2	2	2	2	3	3	2	3	3	3	3	3	3	3	4



NITROGEN DIOXIDE (CC:09)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
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APR, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	1	0	0	2	0	0	2	1	0	(CA)	(CA)	1	0	2	4	4	2	3	3	6	1	6
2	3	4	3	4	4	4	4	3	3	7	3	6	6	7	4	5	3	4	4	4	6	7	3	6	4	7
3	6	5	3	1	4	4	4	2	3	5	2	3	0	2	5	1	1	3	2	2	7	7	3	4	3	7
4	4	3	3	4	5	5	5	6	4	4	7	4	(CA)	(CA)	4	3	5	4	5	3	5	2	2	4	4	7
5	2	2	2	2	2	1	0	0	0	0	(CA)	(CA)	(CA)	0	0	0	0	0	0	0	0	0	0	0	1	2
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
7	0	0	0	0	0	0	0	4	0	0	(SA)	(SA)	(SA)	(SA)	0	0	0	0	0	0	0	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	(ZS)	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	(ZS)	0	0	0	0	1	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	5	0	0	0	0	1	0	1	0	0	0	(ZS)	0	2	4	0	0	0	0	0	0	0	2	0	1	5
16	0	0	0	0	0	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	2
17	0	3	0	0	3	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
18	0	2	2	3	0	0	0	0	0	0	0	0	(ZS)	0	0	0	0	0	2	0	0	2	0	3	1	3
19	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
20	0	0	0	0	0	1	6	0	0	0	2	(NF)	(ZS)	0	0	0	0	0	0	0	0	0	0	0	0	6
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	5
22	0	0	0	0	0	0	0	3	1	0	1	(ZS)	0	5	5	3	1	0	0	0	0	0	0	0	1	7
23	0	0	0	0	0	0	0	3	10	3	5	6	0	0	3	1	0	0	1	3	0	0	0	1	1	10
24	0	1	0	0	0	0	0	0	0	0	0	(ZS)	0	1	3	3	1	0	0	1	0	0	0	0	1	5
25	5	0	0	0	0	0	0	0	0	0	0	(ZS)	0	0	1	0	0	1	0	0	0	0	0	0	1	5
26	1	1	0	3	0	0	0	1	1	3	0	0	0	0	1	0	0	1	0	0	0	0	5	3	1	5
27	0	1	0	0	5	0	0	3	0	1	(ZS)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5
28	1	3	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
29	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4
30	0	1	0	1	0	0	0	0	1	0	0	(ZS)	0	1	1	1	0	0	0	0	0	0	1	0	0	3
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	10
SD	2	2	1	1	2	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2	2	1	2	2	1

NITROGEN DIOXIDE (CC:09)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4

MAY, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	1	0	1	0	1	4	3	3	0	1	0	0	3	0	0	0	0	6	0	0	0	0	0	1	1	6
2	1	3	1	4	0	0	0	1	0	0	1	1	0	1	3	0	0	0	0	0	0	0	0	1	3	1
3	3	0	0	3	4	3	4	4	[CA]	0	0	0	0	0	1	2	3	5	5	0	0	0	3	0	2	5
4	0	0	0	0	2	3	0	0	0	3	0	[CA]	[CA]	[CA]	3	3	0	0	0	0	0	0	0	3	1	
5	0	0	0	0	0	0	0	2	0	2	2	3	0	0	0	2	0	0	3	0	0	2	0	0	1	
6	0	0	0	0	0	0	0	0	[ZS]	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	
7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
8	0	0	0	0	1	0	0	0	1	[ZS]	0	0	0	0	0	3	0	4	3	0	0	0	0	0	2	
9	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
10	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
11	3	0	1	0	5	0	6	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
12	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
13	0	0	0	0	0	0	2	0	0	[CA]	[CA]	[CA]	[CA]	[CA]	0	0	0	0	0	0	0	2	0	0	2	
14	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
16	0	0	0	0	0	2	0	0	4	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
19	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	[PC]	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
AV	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
SD	1	1	0	1	1	1	1	1	1	0	1	0	1	1	1	1	1	2	1	0	0	0	1	1	1	



NITROGEN DIOXIDE (CC:09)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JUN, 1983

AEROENVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	0	0	0	0	0	0	0	0	0	0	0	[CA]	[CA]	[CA]	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	[PC]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

NITROGEN DIOXIDE [CC:09]  
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WHITE RIVER SHALE PROJECT, #139  
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 \* FINAL DATA \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0 [CA]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0 [IW]	0	0
9	0	0	0	0	0	0	0	0	0	0 [CA]	0 [CA]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0 [SA]	0 [SA]	0 [SA]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0 [PF]	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	2
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NITROGEN DIOXIDE [CC:09]  
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BORANZA, UTAH  
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\*\*\*\*\*  
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\* AS OF 16/APR/84 \*  
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DY	CLOCK HOUR [LOCAL STANDARD TIME]																								AVE	PEAK
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NITROGEN DIOXIDE (CC109)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

SEP, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

BY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	2	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	2	2	1	3	
4	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
25	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
26	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
27	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
28	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
29	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
30	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
SD	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	





NITROGEN DIOXIDE (CC:09)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

NOV, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
2	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
3	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
4	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
5	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
6	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
7	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
8	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
9	1	0	0	0	0	0	0	0	0	0	[CA]	[CA]	2	3	0	2	3	0	0	0	0	1	1	1	0	1
10	0	0	3	7	4	0	0	0	1	2	2	2	4	4	4	4	4	3	2	0	1	0	0	0	1	3
11	0	0	1	0	1	1	1	1	2	5	7	6	[PC]	6	12	13	5	6	4	2	1	1	2	1	0	
12	1	1	1	1	1	4	9	7	5	4	4	3	5	4	5	6	5	4	4	4	4	2	2	2	4	
13	4	2	2	2	2	2	0	0	0	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	
14	2	1	0	0	0	0	0	0	0	1	2	2	2	2	3	3	3	3	3	3	3	3	3	2	1	
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16	4	3	3	4	3	3	4	4	4	4	4	7	8	7	7	6	6	12	6	6	6	6	6	6	5	
17	5	6	6	6	6	6	6	6	6	6	8	10	11	11	11	11	11	14	12	8	7	7	7	7	14	
18	5	7	7	10	8	8	7	9	7	5	6	7	7	8	8	8	7	6	7	6	5	5	5	5	7	
19	5	5	5	5	5	5	5	5	5	5	7	8	8	8	8	8	8	7	6	6	6	6	6	6	8	
20	6	6	6	6	6	6	6	6	6	6	9	7	7	6	9	8	8	9	9	9	8	9	8	6	7	
21	7	9	7	7	8	6	6	6	7	7	[ZS]	9	8	9	9	9	8	7	7	7	7	7	7	7	9	
22	7	7	7	7	7	7	7	7	7	7	7	10	10	10	10	10	10	11	10	8	7	7	7	7	8	
23	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	7	7	7	7	10	
24	8	7	10	8	8	8	8	8	8	8	9	11	11	11	11	11	11	11	11	11	11	11	11	11	12	
25	11	11	11	11	11	11	11	11	11	11	10	[ZS]	14	14	14	12	12	12	12	11	10	11	9	9	14	
26	9	9	9	9	9	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	
27	7	7	7	7	7	7	7	7	7	7	7	9	10	10	10	10	10	10	10	9	8	8	8	8	10	
28	8	8	8	8	8	10	10	9	8	8	13	[ZS]	11	11	11	11	12	11	11	12	13	14	15	17		
29	14	12	10	11	9	11	15	13	9	12	13	10	11	12	[ZS]	8	8	9	9	9	9	9	9	9	10	
30	9	9	9	9	10	9	9	9	10	12	15	16	15	14	14	13	13	12	12	12	12	12	12	12	12	
AV	6	5	5	6	6	6	6	6	5	6	7	8	8	8	8	8	8	7	6	6	6	6	6	6	6	
SD	4	4	4	4	3	4	4	4	3	3	3	4	4	4	4	4	4	3	4	4	4	4	4	4	4	

NITROGEN DIOXIDE (CC:09)  
 MICROGRAMS./CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONAHA, UTAH  
 SITE 4

DEC, 1983  
 AEROVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	12	12	11	12	13	10	11	17	13	15	18	15	14	12	12	13	13	15	13	13	13	13	15	15	13	18	
2	16	15	15	16	13	15	15	14	13	13	17	16	18	15	11	13	13	13	13	13	13	13	10	10	10	14	18
3	10	10	10	10	10	10	7	9	7	9	[CA]	[CA]	[CA]	[CA]	[CA]	7	7	6	6	6	5	5	7	7	8	10	
4	7	4	3	4	5	4	5	4	5	4	5	7	[CA]	[CA]	[CA]	4	4	4	4	4	4	6	5	4	5	7	
5	4	4	3	4	4	4	5	4	5	4	4	4	[ZS]	[ZS]	4	3	4	4	4	4	4	4	4	5	4	5	
6	7	9	6	4	4	5	13	7	7	9	6	5	6	5	6	6	6	4	5	5	4	5	4	4	5	7	
7	5	5	5	6	5	5	4	5	5	6	8	9	[ZS]	6	7	7	6	6	5	4	4	4	4	4	4	5	
8	3	4	4	7	6	10	7	6	6	6	7	6	6	7	6	6	6	5	5	5	4	4	5	5	4	9	
9	5	4	4	4	6	7	12	16	19	8	6	[ZS]	6	7	7	9	10	11	11	10	9	9	11	14	9	19	
10	11	9	8	8	8	6	5	6	5	8	6	6	[PC]	8	8	15	10	10	7	5	5	5	3	3	7	15	
11	4	4	4	5	4	5	4	4	4	3	5	6	6	5	5	5	5	7	6	6	6	4	4	9	9	9	
12	7	6	5	5	4	5	8	5	6	5	8	5	5	5	5	4	4	5	4	4	5	4	3	3	5	8	
13	4	5	5	4	4	3	3	4	3	4	4	4	2	3	4	4	5	4	5	3	3	4	4	3	5	4	
14	4	4	4	4	4	4	4	4	4	4	3	[ZS]	1	2	2	4	4	4	3	3	3	4	4	4	3	4	
15	4	7	7	7	8	7	9	6	7	6	8	6	6	6	6	6	6	5	4	5	4	4	4	4	4	9	
16	3	4	4	4	4	4	4	3	4	4	4	5	[ZS]	4	3	6	5	5	6	6	6	6	6	6	7	8	
17	6	7	6	6	6	6	6	6	6	5	4	6	4	5	4	4	4	5	6	3	3	6	6	6	6	8	
18	6	10	9	11	15	9	8	6	6	6	[ZS]	7	7	6	5	6	7	6	5	7	7	7	7	7	7	15	
19	9	9	6	5	4	2	4	3	3	3	2	3	3	2	2	5	2	3	2	3	2	4	4	4	4	9	
20	4	8	5	6	4	4	4	4	4	4	[ZS]	7	5	5	6	6	9	9	10	9	9	13	9	9	13		
21	9	9	10	7	7	7	7	7	8	7	5	5	[PC]	7	5	5	5	5	5	5	5	5	5	5	7	10	
22	5	5	5	5	5	5	5	5	4	5	3	3	3	3	3	4	4	4	2	2	2	5	5	5	5	5	
23	6	7	5	5	6	7	5	5	5	5	5	3	4	3	3	3	4	5	4	5	5	5	5	5	5	7	
24	6	5	5	5	5	5	5	5	4	4	5	6	3	4	3	3	3	3	3	3	3	4	4	4	5	6	
25	5	5	5	4	5	5	5	5	4	4	[ZS]	3	3	2	1	3	3	3	3	4	5	4	5	4	5	6	
26	3	3	4	4	3	3	3	3	3	3	3	3	4	4	4	4	3	3	3	4	4	5	5	4	4	5	
27	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	4	
28	6	4	3	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	5	2	4	2	3	3	3	3	3	3	4	4	2	3	6	
29	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	6	
30	6	5	6	5	5	5	5	5	5	5	5	5	[ZS]	5	5	4	4	4	4	6	7	7	7	6	7	7	
31	4	4	5	4	4	5	5	5	6	6	5	6	5	5	4	5	5	4	4	5	4	4	4	4	5	6	
AV	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	6	6	6	6	6	6	6	6	6	6	19	
SD	3	3	3	3	3	3	3	3	3	3	4	3	4	2	3	3	3	3	3	3	3	2	3	3	3	[ ]	



OXIDES OF NITROGEN [CC:10]  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JAN, 1983

AEROENVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	3	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	11	8	5	4	2	0	0	0	0	0	0
6	0	0	0	0	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]
7	0	0	0	0	0	0	0	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

OXIDES OF NITROGEN [CC:10]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONHAIZA, UTAH  
 SITE 4

FEB, 1983

AEROSOL ENVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

0Y	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	5	0	0	2	2	2	0	0	0	0	0	0	0	0	0	5
2	0	0	0	0	0	0	0	0	0	2	[CA]	[CA]	10	10	9	6	6	4	4	2	4	2	3	0	0	8
3	0	0	1	0	0	0	0	0	0	0	[CA]	11	4	4	3	3	3	8	2	1	0	0	0	0	0	10
4	0	0	0	0	0	0	0	0	0	0	3	[CA]	3	2	3	3	3	3	3	3	3	4	5	0	2	11
5	1	4	5	4	0	0	0	0	0	0	0	0	3	2	3	3	3	3	0	1	1	0	0	0	0	5
6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	3	3	2	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	3	1	4	[CA]	2	2	16	6	3	2	2	1	0	0	0	0	0	2
8	0	3	1	3	5	0	0	0	0	0	0	2	2	2	4	5	5	8	5	2	0	0	0	0	0	16
9	9	2	0	0	0	0	0	2	0	0	0	9	8	[ZS]	3	3	5	8	5	3	1	0	0	0	0	3
10	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	4	6	2	1	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	4	1	3	2	3	2	3	3	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	3	1	2	3	3	3	3	1	1	0	0	0	0	0	3
13	0	0	0	0	0	0	0	0	0	0	0	2	4	4	5	5	3	5	1	0	0	0	0	0	0	5
14	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	1	4	4	4	3	3	1	1	0	0	0	1	
15	0	0	0	0	0	0	0	0	0	0	0	0	4	3	5	4	4	2	0	0	0	0	0	0	0	5
16	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	4	4	7	6	3	12	7	0	0	0	0	2	
17	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	4	4	4	4	2	7	0	0	0	0	1	
18	0	0	0	0	0	0	0	0	0	0	0	1	10	1	0	0	1	1	1	0	0	0	0	0	0	10
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	2	2	2	2	1	0	0	0	0	0	1
SD	2	1	1	1	1	1	0	0	1	1	1	3	3	2	4	3	2	3	3	2	1	0	0	1	1	2

OXIDES OF NITROGEN (OC:10)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

MAR, 1983

AEROVIROHMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	
14	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	
15	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	
16	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	
17	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	
18	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	
19	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	(OR)	
20	0	15	13	15	14	13	14	14	13	12	7	7	6	5	4	4	6	3	0	0	1	4	1	2	7	15	
21	2	0	2	5	5	6	7	9	7	9	8	9	ZS	0	0	0	0	0	0	0	0	2	4	3	3	9	
22	5	5	4	2	4	5	6	3	6	3	1	0	0	0	0	0	0	0	0	0	0	4	6	9	3	9	
23	8	3	6	10	7	10	11	8	8	9	10	8	7	8	7	8	8	9	11	8	8	11	12	11	9	12	
24	11	12	11	13	13	13	12	11	12	11	12	8	ZS	11	11	13	13	16	13	12	13	13	14	13	12	16	
25	15	13	14	15	15	15	15	15	15	15	11	8	9	9	9	9	11	14	16	18	19	19	17	14	19	15	
26	20	24	19	20	19	16	15	17	14	12	10	8	9	11	12	13	12	15	18	17	15	19	15	19	15	24	
27	20	17	19	20	26	26	28	30	30	19	12	15	16	16	15	19	21	22	23	22	22	23	22	19	21	32	
28	23	24	31	43	33	39	45	56	54	33	25	22	17	20	19	19	20	15	21	20	15	16	15	16	27	56	
29	16	16	17	16	17	21	20	20	17	12	12	12	10	ZS	10	11	13	13	14	14	13	14	15	15	21	15	
30	16	19	17	16	18	18	20	18	16	14	14	12	18	18	16	16	16	16	16	15	17	19	20	18	17	20	
31	20	18	17	16	16	16	16	16	17	15	14	14	14	14	17	15	15	17	16	17	18	18	17	16	16	20	
AV	7	7	7	8	8	8	9	9	9	7	6	6	6	4	5	5	6	6	6	6	6	7	7	7	7	7	56
SD	9	9	9	11	10	11	12	13	13	9	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	(

OXIDES OF NITROGEN (CO:10)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONHUA, UTAH  
SITE 4

APR. 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	16	18	18	17	17	19	19	19	17	15	16	14	13	13	14	11	11	10	9	11	13	14	14	16	15	19
2	16	16	17	17	15	17	16	15	15	17	15	15	14	15	14	15	12	15	14	14	14	14	16	15	16	17
3	17	18	15	15	18	18	19	16	17	17	15	15	12	12	12	14	15	15	15	19	19	19	16	18	16	19
4	17	16	19	19	19	20	20	21	20	19	21	19	[CA]	[CA]	[CA]	13	13	17	16	16	16	15	15	16	17	21
5	14	15	14	14	13	13	12	10	12	9	[CA]	[CA]	[CA]	5	4	5	7	7	9	9	5	7	8	8	10	15
6	8	7	8	7	7	7	8	7	8	7	7	4	9	9	9	8	5	0	2	4	2	2	3	4	6	9
7	5	6	7	7	5	7	6	11	7	7	[SA]	[SA]	[SA]	[SA]	7	7	6	4	5	5	5	5	5	5	6	11
8	5	5	5	5	5	5	5	5	5	5	5	5	5	4	0	3	0	0	1	1	4	4	5	6	4	6
9	7	6	6	6	5	7	9	6	6	4	2	2	1	3	3	0	1	0	0	0	1	2	3	3	3	9
10	3	2	2	4	2	4	4	4	4	4	2	4	1	4	2	2	4	3	3	2	2	0	1	2	3	6
11	2	2	3	2	3	3	1	4	4	2	6	3	[ZS]	[ZS]	3	2	2	3	2	5	4	6	4	4	3	6
12	5	6	7	6	6	6	6	6	7	7	5	2	2	2	0	0	2	4	3	4	5	6	4	7	5	7
13	7	6	6	8	9	7	7	7	7	6	7	[ZS]	6	4	6	6	6	7	6	7	6	7	7	7	9	9
14	9	7	7	7	7	8	7	8	8	7	5	6	1	0	0	0	1	0	4	4	4	4	3	5	5	9
15	5	0	0	0	0	2	2	4	0	0	0	[ZS]	0	0	2	4	0	0	0	0	0	0	2	0	1	5
16	0	2	3	0	2	0	3	2	2	2	3	0	3	0	0	0	0	0	0	0	0	0	0	2	1	3
17	0	3	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	2	2	1	3
18	0	2	3	3	0	0	0	2	0	0	0	0	[ZS]	0	0	0	0	0	2	0	0	2	0	3	1	3
19	0	0	0	0	0	0	3	5	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	5
20	0	0	3	3	3	7	9	7	5	7	8	[RF]	[ZS]	0	0	0	0	0	0	0	0	0	0	0	2	9
21	0	0	0	0	0	0	0	0	0	0	0	3	0	1	3	1	0	0	0	0	0	3	3	0	1	3
22	0	0	0	0	0	0	0	3	1	0	1	[ZS]	0	5	5	3	1	0	0	0	0	0	0	0	1	5
23	0	0	0	0	0	0	1	0	0	0	0	0	7	0	3	1	0	1	3	0	0	1	0	0	1	7
24	0	1	0	0	0	0	0	3	10	3	5	6	0	0	0	0	0	0	0	0	0	0	0	0	1	10
25	5	5	0	0	0	0	0	1	0	0	0	[ZS]	0	1	3	3	1	0	1	0	0	0	0	0	1	5
26	1	1	0	3	0	0	0	1	1	3	0	0	0	0	1	0	0	1	0	0	0	0	0	5	3	1
27	0	1	0	0	5	0	0	3	0	1	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
28	1	3	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
29	1	1	0	1	1	0	0	0	0	0	[ZS]	0	1	1	4	1	0	0	0	0	0	0	1	0	0	4
30	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	3
AV	5	5	5	5	5	5	5	6	5	5	5	4	3	3	3	3	3	3	3	3	3	4	4	4	4	21
SD	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	1

OXIDES OF NITROGEN (CC110)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONNH24, UTAH  
SITE 4

MAY, 1983

HEROYTRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	1	0	1	0	1	4	3	3	1	1	0	0	3	0	0	0	0	0	0	0	3	0	0	1	1	8
2	1	4	1	4	3	4	0	1	1	0	1	1	4	0	3	0	0	0	0	0	0	0	0	1	3	4
3	3	3	0	0	3	4	4	4	4	[CA]	5	5	4	4	7	7	7	9	9	4	7	4	9	7	5	9
4	7	5	7	7	7	7	7	5	8	5	7	[CA]	9	4	9	4	4	4	4	5	7	10	8	10	7	10
5	2	8	7	3	5	8	7	7	8	5	5	3	7	3	7	3	3	3	3	3	7	5	5	5	8	8
6	3	5	5	1	8	5	6	5	3	3	7	5	5	5	5	5	5	5	3	3	3	4	4	4	4	8
7	6	5	3	8	5	3	6	5	3	3	0	1	3	0	3	3	5	5	3	3	3	4	4	4	4	8
8	3	3	0	6	4	3	1	3	6	1	1	0	0	0	2	1	2	1	0	1	0	1	4	4	2	6
9	2	2	4	2	0	2	2	2	2	[ZS]	4	0	4	0	4	0	4	4	4	0	2	2	2	4	6	6
10	4	6	6	6	8	6	6	4	4	4	4	0	0	0	0	0	2	2	0	0	0	2	4	4	3	8
11	6	0	6	4	6	2	8	6	4	8	8	6	4	2	4	4	4	6	4	2	0	6	4	4	4	8
12	4	5	5	7	3	7	9	7	5	[ZS]	1	0	0	0	3	1	1	3	0	1	0	1	1	7	3	9
13	5	3	5	3	7	1	9	9	7	5	[CA]	1	0	1	0	0	0	0	1	1	0	3	0	1	3	9
14	3	3	1	3	3	5	5	1	3	5	2	0	0	0	0	0	0	0	0	0	0	2	0	6	6	6
15	2	2	0	4	0	6	6	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	5	8
16	0	0	5	1	3	5	3	3	5	3	[ZS]	0	3	0	0	0	0	0	0	0	0	1	0	0	1	5
17	1	1	3	3	4	2	6	4	4	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	8
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	2	2	2	2	2	2	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	10
SD	2	2	2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	2	2	2	3	3	3	11



OXIDES OF NITROGEN (C.C.101)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JUN, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	[FC]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

OXIDES OF NITROGEN (CC:10)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

JUL, 1983

AEROSOL ENVIRONMENT INC.

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2	1	0	0	0	0	0	0	0	0	0	0	0	1	2	3	2	2	2	3	3	2	2	1	1	3
5	1	1	1	1	1	1	1	1	2	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	[CA]	0	0	[CA]	[IU]	[IU]	[IU]	[IU]	[IU]	[IU]	[IU]	[IU]	[IU]	[IU]	[IU]	[IU]	0	0
9	0	0	0	0	0	0	0	0	[CA]	[CA]	[CA]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	[SA]	[SA]	[SA]	0	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	[PF]	0	0
15	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	[PC]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	1	1	0	0	4	1	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
30	0	0	0	0	0	0	0	0	0	2	1	[ZS]	6	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
SD	0	0	0	0	0	0	1	0	0	2	1	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1



OXIDES OF NITROGEN [CC110]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

AUG, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	1	0	0	0	0	0	2	1	2	0	0	0	0	1	0	0	0	0	5	6	1	0	0	1	6
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
16	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
17	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
18	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	2
19	0	1	2	0	0	1	1	2	2	2	2	0	0	1	1	1	1	1	1	2	1	1	2	1	1	2
20	0	0	0	0	0	0	1	1	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
21	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	2	1	0	0	0	0	0	3	1	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	1
26	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
27	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
28	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
29	0	0	0	0	1	2	3	5	4	2	1	1	1	2	3	4	1	1	0	0	0	0	0	0	0	5
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
31	0	0	0	0	0	0	0	2	3	2	5	0	2	1	0	0	0	0	0	0	0	0	0	0	0	5
AV	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
SD	0	0	0	0	0	0	1	1	2	2	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	11

OXIDES OF NITROGEN [CC:100]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

SEP, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

BY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	0	0	0	0	0	0	0	1	3	3	2	3	3	0	1	2	0	0	3	1	1	0	1	0	0	1	3
2	0	0	1	0	1	1	1	1	3	1	[CA]	[CH]	1	1	0	0	0	0	2	0	0	0	1	2	1	3	3
3	0	2	1	0	0	0	0	0	1	1	2	1	3	0	0	0	0	1	0	2	3	2	2	2	1	3	3
4	2	2	2	1	1	0	0	2	2	2	2	2	2	2	2	3	1	1	0	0	0	1	0	0	0	1	3
5	0	0	0	0	0	0	0	0	1	1	3	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	3
6	0	0	0	0	0	0	0	0	0	0	[ZS]	[ZS]	0	0	0	0	0	0	1	1	2	4	3	1	1	4	
7	0	0	0	0	0	0	0	0	1	2	2	2	2	0	0	0	0	0	0	0	1	0	1	1	0	1	2
8	0	0	1	0	0	0	0	0	0	0	[ZS]	[ZS]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
12	0	0	1	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	1	0	1	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
16	0	0	0	0	0	0	0	0	0	0	[PC]	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	2	0	0	0	0	0	0	5
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	[CA]	[CA]	[ZS]	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	[CA]	[CA]	[CA]	[CA]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
25	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
26	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
27	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
28	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
29	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
30	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]
AV	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	5
SD	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1



OXIDES OF NITROGEN [CC:10]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

NOV, 1983

AERONNMENT INC.

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
2	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
3	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
4	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
5	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
6	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
7	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
8	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	[OR]	
9	1	0	0	0	0	0	0	0	0	0	[CA]	[CA]	3	4	4	3	4	5	2	1	1	1	1	1	2	5	
10	0	0	3	7	4	0	0	1	2	2	2	2	4	4	4	4	4	5	2	3	4	2	1	0	0	1	5
11	0	0	1	1	1	1	1	1	2	5	7	6	[PC]	6	12	13	5	6	4	2	1	1	2	1	0	2	7
12	1	1	1	1	1	4	9	7	5	4	4	3	5	4	5	6	5	6	4	4	4	2	2	2	1	3	13
13	4	2	2	2	2	2	2	0	0	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	4
14	2	1	0	0	0	0	0	0	0	1	2	2	2	3	3	3	3	3	3	3	3	3	3	2	1	2	3
15	1	1	1	1	1	1	1	1	1	2	4	7	[ZS]	8	5	7	6	7	6	5	5	5	3	2	1	2	3
16	4	3	3	4	3	3	4	4	4	4	7	8	7	7	[ZS]	6	6	13	6	6	6	6	6	6	6	5	13
17	5	6	6	6	6	6	6	6	6	6	8	[ZS]	9	10	11	11	11	14	12	8	7	7	7	7	8	14	
18	5	7	7	10	8	8	7	9	7	5	6	7	7	7	8	7	6	7	6	5	5	5	5	7	7	10	
19	5	5	5	5	5	5	5	5	5	5	7	8	8	8	8	8	8	8	6	6	6	6	6	6	6	8	
20	6	6	6	6	6	6	6	6	6	6	6	9	7	7	6	9	8	9	9	9	8	9	8	6	6	8	
21	7	9	7	7	8	6	6	6	7	7	[ZS]	9	8	9	9	9	8	7	7	7	7	7	7	7	7	9	
22	7	7	7	7	7	7	7	7	7	7	7	10	10	10	10	10	11	10	8	7	7	7	7	7	8	11	
23	7	7	7	7	7	7	8	8	8	8	8	8	8	9	[ZS]	10	10	8	8	8	8	8	8	8	8	10	
24	8	7	10	8	8	8	8	8	8	8	9	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12	
25	11	11	11	11	11	11	11	11	11	11	10	[ZS]	14	14	14	12	12	12	11	11	10	11	11	11	11	12	
26	9	9	9	9	9	9	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	
27	7	7	7	7	7	7	7	7	7	7	7	9	10	10	10	10	10	10	10	9	8	8	8	8	8	10	
28	8	8	8	8	8	10	10	9	8	8	8	13	[ZS]	11	11	11	12	11	11	12	13	14	15	17	17		
29	14	12	10	11	9	11	15	13	9	12	13	10	11	12	[ZS]	8	8	9	9	9	9	9	9	9	9	10	15
30	9	9	9	9	10	9	9	9	10	12	15	16	15	14	14	13	13	12	12	12	12	12	12	12	12	16	
AV	6	5	5	6	6	6	6	6	5	6	7	8	8	8	8	8	8	8	7	6	6	6	6	6	6	17	
SD	4	4	4	4	3	4	4	4	3	3	4	4	4	3	4	3	3	3	3	4	3	4	4	4	4	4	



OXIDES OF NITROGEN (CC:10)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONAHZA, UTAH  
SITE 4

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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DEC, 1983  
AEROSOL ENVIRONMENT INC.

CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	12	12	11	12	13	10	11	17	13	15	18	15	14	12	12	13	15	13	13	13	13	13	15	15	13	18	
2	16	15	15	16	13	10	15	14	13	13	17	16	18	15	11	13	13	13	13	13	13	10	10	10	10	14	18
3	10	10	10	10	10	10	7	9	7	9	[CA]	[CA]	11	13	13	12	11	11	10	10	9	11	10	10	10	13	
4	10	10	9	8	8	8	8	8	8	8	8	11	[CA]	[CA]	[CA]	8	9	8	7	7	7	8	7	8	8	11	
5	8	8	7	7	7	8	8	8	8	8	8	10	[ZS]	8	8	8	8	8	8	7	8	7	8	8	10	10	
6	10	13	8	8	7	8	16	10	11	15	12	11	13	12	11	11	10	8	8	9	8	8	8	8	10	16	
7	8	9	8	8	8	8	8	8	8	10	14	17	[ZS]	13	15	14	13	11	10	10	13	13	10	10	11	17	
8	9	10	9	11	10	14	11	9	9	12	12	11	13	13	15	14	13	11	11	10	10	13	10	10	11	15	
9	9	8	8	8	10	11	15	23	27	11	11	[ZS]	12	12	14	16	16	17	17	16	14	13	14	17	14	27	
10	14	12	12	11	11	9	9	9	10	16	13	16	[PC]	13	13	23	14	15	13	11	9	9	8	7	12	23	
11	7	7	7	7	9	7	7	7	7	7	10	11	12	11	10	11	9	11	9	11	9	9	7	7	13	13	
12	11	9	9	9	9	8	12	9	9	10	14	11	10	11	11	11	10	11	9	8	9	9	7	7	10	13	
13	7	7	7	7	7	7	7	7	7	7	8	7	7	9	9	9	9	9	9	7	8	8	7	7	8	9	
14	7	7	7	7	7	7	7	7	7	7	7	[ZS]	9	9	9	10	10	10	8	8	7	7	7	7	8	9	
15	8	10	12	12	11	10	12	10	10	12	11	11	11	13	12	11	10	10	10	10	10	9	9	9	8	10	
16	7	7	7	6	7	6	7	6	7	7	9	13	[ZS]	10	9	11	10	10	10	9	10	11	9	10	9	13	
17	9	10	9	10	11	10	9	9	8	9	10	13	10	10	9	9	9	9	8	8	9	11	9	9	9	13	
18	9	9	10	9	8	9	9	9	9	8	8	9	9	9	10	11	11	9	9	12	16	12	9	9	10	16	
19	9	12	12	13	17	12	10	9	9	[ZS]	12	12	12	13	11	11	11	11	12	11	11	11	11	11	10	17	
20	11	12	9	9	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	6	5	5	7	12	
21	7	10	7	7	7	7	7	7	7	[ZS]	14	11	11	12	11	12	13	13	13	12	11	12	14	11	10	14	
22	11	11	9	9	9	9	9	9	9	9	9	9	[PC]	12	11	12	11	10	9	9	9	9	9	9	10	12	
23	9	8	8	6	6	6	9	9	9	[ZS]	11	11	10	10	9	9	8	6	6	6	6	6	6	6	6	11	
24	8	8	6	6	8	8	9	6	6	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
25	9	9	9	9	9	9	9	9	9	9	9	9	11	9	9	9	9	9	9	9	9	9	9	9	9	9	
26	9	9	9	9	9	9	9	9	9	[ZS]	9	8	9	9	11	10	12	8	8	9	8	9	9	9	11	12	
27	8	9	9	9	9	8	8	8	8	8	9	11	11	11	11	11	13	11	11	11	11	11	11	11	10	13	
28	11	9	6	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	6	7	8	8	8	8	8	8	8	8	8	8	8	6	11	
29	6	7	7	6	6	6	8	7	6	7	8	8	9	[ZS]	11	11	13	14	13	11	11	11	11	11	9	14	
30	9	8	8	8	8	8	8	8	8	[ZS]	11	11	11	11	11	11	11	11	11	11	11	11	11	11	9	11	
31	8	10	8	8	8	8	8	9	11	11	11	11	11	11	10	11	11	11	11	11	10	10	9	11	10	11	
AV	9	9	9	9	9	9	9	9	9	11	11	11	11	11	11	11	11	11	10	10	10	10	9	9	10	27	
SD	2	2	2	2	2	2	3	3	4	3	3	2	2	2	2	3	2	2	2	2	2	2	2	2	2	3	

OZONE [CC:11]

MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONHIZA, UTAH  
SITE 4

JAN, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	[RF] 80	[RF] 40	[RF] 71	[RF] 73	[RF] 73	[RF] 73	[RF] 73	[RF] 37	[RF] 72	[RF] 62	[RF] 61	[RF] 68	[RF] 75	[PC] 81	[PC] 80	[PC] 88	[RF] 84	[RF] 79	[RF] 78	[RF] 78	[RF] 81	[RF] 86	[RF] 85	[RF] 84	[RF] 82	[RF] 88	
2	[RF] 36	[RF] 73	[RF] 74	[RF] 73	[RF] 75	[RF] 73	[RF] 70	[RF] 69	[RF] 67	[RF] 62	[RF] 68	[RF] 66	[RF] 34	[RF] 81	[RF] 84	[RF] 80	[RF] 88	[RF] 87	[RF] 89	[RF] 93	[RF] 93	[RF] 88	[RF] 88	[RF] 42	[RF] 75	[RF] 93	
3	[RF] 82	[RF] 81	[RF] 80	[RF] 79	[RF] 83	[RF] 79	[RF] 78	[RF] 67	[RF] 70	[RF] 73	[RF] 59	[RF] 72	[ZS] 97	[RF] 95	[RF] 96	[RF] 96	[RF] 90	[RF] 90	[RF] 92	[RF] 89	[RF] 93	[RF] 79	[RF] 80	[RF] 83	[RF] 79	[RF] 97	
4	[RF] 89	[RF] 40	[RF] 80	[RF] 78	[RF] 69	[RF] 79	[RF] 91	[RF] 79	[RF] 76	[RF] 39	[RF] 36	[RF] 80	[RF] 97	[RF] 100	[RF] 102	[RF] 100	[RF] 99	[RF] 101	[RF] 96	[RF] 93	[RF] 100	[RF] 92	[RF] 90	[RF] 91	[RF] 85	[RF] 102	
5	[RF] 89	[RF] 40	[RF] 83	[RF] 78	[RF] 69	[RF] 79	[RF] 91	[RF] 79	[RF] 76	[RF] 39	[RF] 36	[RF] 80	[RF] 97	[RF] 100	[RF] 102	[RF] 100	[RF] 99	[RF] 101	[RF] 96	[RF] 93	[RF] 100	[RF] 92	[RF] 90	[RF] 91	[RF] 85	[RF] 102	
6	[RF] 89	[RF] 40	[RF] 83	[RF] 78	[RF] 69	[RF] 79	[RF] 91	[RF] 79	[RF] 76	[RF] 39	[RF] 36	[RF] 80	[RF] 97	[RF] 100	[RF] 102	[RF] 100	[RF] 99	[RF] 101	[RF] 96	[RF] 93	[RF] 100	[RF] 92	[RF] 90	[RF] 91	[RF] 85	[RF] 102	
7	[RF] 73	[RF] 79	[RF] 76	[RF] 36	[RF] 58	[RF] 72	[RF] 70	[RF] 66	[RF] 58	[RF] 48	[RF] 55	[RF] 60	[RF] 55	[RF] 60	[RF] 55	[RF] 73	[RF] 78	[RF] 80	[RF] 75	[RF] 73	[RF] 69	[RF] 67	[RF] 69	[RF] 69	[RF] 67	[RF] 80	
8	[RF] 65	[RF] 60	[RF] 63	[RF] 63	[RF] 63	[RF] 63	[RF] 60	[RF] 56	[RF] 57	[RF] 48	[RF] 48	[RF] 50	[RF] 55	[RF] 60	[RF] 62	[RF] 64	[RF] 70	[RF] 71	[RF] 75	[RF] 78	[RF] 84	[RF] 79	[RF] 76	[RF] 74	[RF] 72	[RF] 84	
9	[RF] 76	[RF] 76	[RF] 76	[RF] 75	[RF] 76	[RF] 78	[RF] 78	[RF] 78	[RF] 76	[RF] 70	[RF] 70	[RF] 66	[RF] 62	[RF] 64	[RF] 66	[RF] 72	[RF] 74	[RF] 73	[RF] 71	[RF] 70	[RF] 69	[RF] 76	[RF] 75	[RF] 70	[RF] 70	[RF] 76	
10	[RF] 71	[RF] 63	[RF] 55	[RF] 61	[RF] 62	[RF] 63	[RF] 58	[RF] 53	[RF] 55	[RF] 51	[RF] 48	[RF] 52	[RF] 55	[RF] 67	[RF] 66	[RF] 77	[RF] 78	[RF] 78	[RF] 76	[RF] 73	[RF] 72	[RF] 73	[RF] 75	[RF] 78	[RF] 64	[RF] 78	
11	[RF] 81	[RF] 80	[RF] 73	[RF] 66	[RF] 62	[RF] 57	[RF] 53	[RF] 57	[RF] 55	[RF] 51	[RF] 48	[RF] 52	[RF] 55	[RF] 67	[RF] 66	[RF] 77	[RF] 78	[RF] 78	[RF] 76	[RF] 73	[RF] 72	[RF] 73	[RF] 75	[RF] 78	[RF] 64	[RF] 81	
12	[RF] 81	[RF] 80	[RF] 73	[RF] 66	[RF] 62	[RF] 57	[RF] 53	[RF] 57	[RF] 55	[RF] 51	[RF] 48	[RF] 52	[RF] 55	[RF] 67	[RF] 66	[RF] 77	[RF] 78	[RF] 78	[RF] 76	[RF] 73	[RF] 72	[RF] 73	[RF] 75	[RF] 78	[RF] 64	[RF] 81	
13	[RF] 58	[RF] 59	[RF] 65	[RF] 68	[RF] 67	[RF] 61	[RF] 58	[RF] 53	[RF] 53	[RF] 45	[RF] 50	[RF] 42	[RF] 60	[RF] 77	[RF] 82	[RF] 78	[RF] 78	[RF] 77	[RF] 78	[RF] 78	[RF] 75	[RF] 60	[RF] 72	[RF] 81	[RF] 66	[RF] 82	
14	[RF] 65	[RF] 63	[RF] 61	[RF] 59	[RF] 58	[RF] 50	[RF] 57	[RF] 60	[RF] 55	[RF] 53	[RF] 49	[RF] 63	[RF] 66	[RF] 70	[RF] 72	[RF] 80	[RF] 79	[RF] 79	[RF] 78	[RF] 80	[RF] 81	[RF] 86	[RF] 86	[RF] 86	[RF] 68	[RF] 86	
15	[RF] 92	[RF] 38	[RF] 80	[RF] 68	[RF] 64	[RF] 60	[RF] 65	[RF] 63	[RF] 66	[RF] 50	[RF] 54	[RF] 68	[RF] 70	[RF] 71	[RF] 72	[RF] 79	[RF] 75	[RF] 67	[RF] 67	[RF] 77	[RF] 72	[RF] 68	[RF] 68	[RF] 72	[RF] 70	[RF] 92	
16	[RF] 73	[RF] 68	[RF] 83	[RF] 77	[RF] 63	[RF] 52	[RF] 57	[RF] 63	[RF] 62	[RF] 51	[RF] 42	[RF] 56	[RF] 70	[RF] 75	[RF] 79	[RF] 77	[RF] 75	[RF] 75	[RF] 75	[RF] 75	[RF] 72	[RF] 68	[RF] 55	[RF] 57	[RF] 62	[RF] 79	
17	[RF] 66	[RF] 59	[RF] 62	[RF] 65	[RF] 59	[RF] 55	[RF] 54	[RF] 51	[RF] 45	[RF] 48	[RF] 42	[RF] 56	[RF] 70	[RF] 75	[RF] 79	[RF] 77	[RF] 75	[RF] 75	[RF] 75	[RF] 75	[RF] 72	[RF] 68	[RF] 55	[RF] 57	[RF] 62	[RF] 79	
18	[RF] 53	[RF] 60	[RF] 53	[RF] 59	[RF] 57	[RF] 59	[RF] 67	[RF] 73	[RF] 79	[RF] 78	[RF] 63	[RF] 60	[RF] 61	[RF] 64	[RF] 60	[RF] 62	[RF] 59	[RF] 59	[RF] 64	[RF] 65	[RF] 56	[RF] 87	[RF] 61	[RF] 66	[RF] 63	[RF] 79	
19	[RF] 53	[RF] 52	[RF] 54	[RF] 50	[RF] 49	[RF] 54	[RF] 47	[RF] 41	[RF] 43	[RF] 55	[RF] 64	[RF] 60	[RF] 61	[RF] 64	[RF] 60	[RF] 62	[RF] 59	[RF] 59	[RF] 64	[RF] 65	[RF] 56	[RF] 87	[RF] 61	[RF] 66	[RF] 63	[RF] 79	
20	[RF] 58	[RF] 68	[RF] 65	[RF] 65	[RF] 60	[RF] 55	[RF] 60	[RF] 61	[RF] 60	[RF] 58	[RF] 62	[RF] 67	[RF] 68	[RF] 68	[RF] 75	[RF] 74	[RF] 73	[RF] 73	[RF] 73	[RF] 73	[RF] 68	[RF] 70	[RF] 65	[RF] 61	[RF] 61	[RF] 75	
21	[RF] 65	[RF] 59	[RF] 59	[RF] 62	[RF] 60	[RF] 58	[RF] 62	[RF] 53	[RF] 53	[RF] 56	[RF] 60	[RF] 56	[RF] 58	[RF] 68	[RF] 71	[RF] 74	[RF] 75	[RF] 76	[RF] 76	[RF] 76	[RF] 64	[RF] 64	[RF] 57	[RF] 60	[RF] 62	[RF] 68	
22	[RF] 62	[RF] 60	[RF] 63	[RF] 49	[RF] 61	[RF] 54	[RF] 53	[RF] 53	[RF] 53	[RF] 63	[RF] 64	[RF] 66	[RF] 67	[RF] 68	[RF] 68	[RF] 68	[RF] 66	[RF] 66	[RF] 69	[RF] 68	[RF] 80	[RF] 78	[RF] 75	[RF] 72	[RF] 64	[RF] 80	
23	[RF] 63	[RF] 53	[RF] 54	[RF] 58	[RF] 48	[RF] 57	[RF] 55	[RF] 53	[RF] 49	[RF] 44	[RF] 51	[RF] 53	[RF] 58	[RF] 55	[RF] 55	[RF] 55	[RF] 47	[RF] 46	[RF] 59	[RF] 52	[RF] 61	[RF] 60	[RF] 56	[RF] 51	[RF] 64	[RF] 83	
24	[RF] 51	[RF] 49	[RF] 51	[RF] 51	[RF] 58	[RF] 55	[RF] 56	[RF] 54	[RF] 57	[RF] 57	[RF] 59	[RF] 62	[RF] 65	[RF] 67	[RF] 66	[RF] 66	[RF] 64	[RF] 66	[RF] 69	[RF] 67	[RF] 73	[RF] 75	[RF] 73	[RF] 70	[RF] 61	[RF] 75	
25	[RF] 69	[RF] 69	[RF] 68	[RF] 66	[RF] 65	[RF] 67	[RF] 65	[RF] 64	[RF] 58	[RF] 57	[RF] 57	[RF] 60	[RF] 62	[RF] 67	[RF] 70	[RF] 70	[RF] 70	[RF] 72	[RF] 72	[RF] 70	[RF] 71	[RF] 70	[RF] 72	[RF] 72	[RF] 67	[RF] 72	
26	[RF] 70	[RF] 68	[RF] 66	[RF] 64	[RF] 64	[RF] 62	[RF] 59	[RF] 58	[RF] 59	[RF] 56	[RF] 60	[RF] 61	[RF] 65	[RF] 68	[RF] 68	[RF] 68	[RF] 66	[RF] 66	[RF] 66	[RF] 73	[RF] 76	[RF] 79	[RF] 78	[RF] 72	[RF] 67	[RF] 79	
27	[RF] 62	[RF] 58	[RF] 56	[RF] 61	[RF] 62	[RF] 61	[RF] 59	[RF] 52	[RF] 51	[RF] 54	[RF] 52	[RF] 62	[RF] 73	[RF] 85	[RF] 88	[RF] 86	[RF] 86	[RF] 86	[RF] 86	[RF] 86	[RF] 81	[RF] 83	[RF] 82	[RF] 81	[RF] 71	[RF] 83	
28	[RF] 79	[RF] 39	[RF] 77	[RF] 73	[RF] 71	[RF] 69	[RF] 71	[RF] 67	[RF] 64	[RF] 50	[RF] 52	[RF] 66	[RF] 79	[RF] 79	[RF] 79	[RF] 85	[RF] 85	[RF] 84	[RF] 82	[RF] 81	[RF] 81	[RF] 82	[RF] 79	[RF] 77	[RF] 73	[RF] 85	
29	[RF] 76	[RF] 73	[RF] 74	[RF] 76	[RF] 73	[RF] 71	[RF] 67	[RF] 69	[RF] 68	[RF] 54	[RF] 61	[RF] 70	[RF] 75	[RF] 79	[RF] 79	[RF] 81	[RF] 82	[RF] 83	[RF] 83	[RF] 79	[RF] 79	[RF] 77	[RF] 76	[RF] 74	[RF] 74	[RF] 82	
30	[RF] 73	[RF] 73	[RF] 74	[RF] 73	[RF] 72	[RF] 71	[RF] 73	[RF] 74	[RF] 74	[RF] 74	[RF] 74	[RF] 74	[RF] 76	[RF] 79	[RF] 80	[RF] 82	[RF] 83	[RF] 83	[RF] 83	[RF] 79	[RF] 82	[RF] 84	[RF] 83	[RF] 82	[RF] 80	[RF] 77	[RF] 84
AV	[RF] 70	[RF] 66	[RF] 68	[RF] 65	[RF] 65	[RF] 64	[RF] 63	[RF] 61	[RF] 61	[RF] 57	[RF] 55	[RF] 62	[RF] 66	[RF] 73	[RF] 74	[RF] 77	[RF] 76	[RF] 76	[RF] 75	[RF] 76	[RF] 76	[RF] 75	[RF] 72	[RF] 71	[RF] 69	[RF] 102	
SD	[RF] 12	[RF] 13	[RF] 10	[RF] 11	[RF] 8	[RF] 8	[RF] 10	[RF] 10	[RF] 10	[RF] 9	[RF] 8	[RF] 9	[RF] 12	[RF] 11	[RF] 11	[RF] 10	[RF] 11	[RF] 11	[RF] 11	[RF] 11	[RF] 9	[RF] 9	[RF] 11	[RF] 10	[RF] 12	[RF] 1	



OZONE (CC111)

MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

FEB, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	74	70	71	75	81	77	74	71	62	55	59	72	77	79	74	85	90	91	91	91	93	90	90	91	78	93
2	89	86	86	81	77	75	75	72	69	66	63	[ZS]	84	84	88	91	93	93	91	88	86	88	84	87	83	93
3	35	75	80	85	80	84	78	77	75	67	73	73	73	70	78	84	84	86	89	89	87	84	83	41	78	89
4	78	75	73	73	70	68	64	57	57	[ZS]	68	70	77	79	82	85	87	85	84	81	79	76	75	73	87	89
5	69	68	65	67	76	79	78	74	71	68	81	84	82	84	86	87	87	86	89	83	80	81	85	82	79	89
6	86	73	65	67	74	81	73	73	74	74	76	79	80	80	81	82	82	78	76	78	74	71	71	73	76	86
7	74	74	74	74	63	73	79	71	68	72	[ZS]	[ZS]	84	84	85	89	87	82	80	76	73	71	69	71	76	89
8	68	60	61	54	50	50	64	69	74	80	82	82	81	87	87	85	85	80	80	77	75	73	73	71	73	87
9	61	69	69	66	59	58	52	64	63	64	59	64	[ZS]	80	78	80	80	89	94	91	86	81	82	84	72	94
10	95	85	81	75	86	87	86	79	78	78	[ZS]	74	73	72	69	80	84	88	92	92	90	88	85	80	82	92
11	80	73	79	80	79	76	72	66	65	66	73	78	84	88	89	89	90	88	89	87	87	90	84	84	81	90
12	86	83	78	73	76	78	79	68	69	65	67	68	85	89	91	92	91	98	98	92	87	86	82	85	87	98
13	82	82	78	80	84	77	82	84	85	85	89	91	92	90	91	92	91	98	98	92	87	86	82	85	87	98
14	80	76	72	76	78	74	72	74	66	67	[ZS]	78	79	79	78	80	81	80	80	80	80	79	79	78	77	81
15	75	75	75	74	74	71	71	69	66	58	62	77	80	85	92	99	99	98	97	93	90	85	85	80	80	99
16	79	88	88	83	76	73	64	67	61	68	76	[ZS]	89	88	89	93	91	88	78	89	87	83	79	81	93	
17	81	80	78	77	77	77	75	73	71	[ZS]	63	71	77	84	87	87	83	82	81	76	81	81	79	83	78	87
18	84	79	85	83	80	80	75	70	66	63	72	65	70	77	79	84	88	86	86	85	86	81	79	76	78	88
19	83	77	78	81	82	81	79	79	77	77	79	79	79	71	79	78	78	77	77	77	77	77	78	78	78	83
20	77	76	75	77	77	70	73	77	77	75	76	77	79	81	81	82	84	82	80	82	80	75	71	67	77	84
21	70	69	69	71	73	68	67	68	66	60	63	57	79	84	86	87	87	83	79	83	88	86	79	77	75	88
22	77	74	68	68	64	62	62	58	59	58	57	[ZS]	71	71	75	79	82	78	77	77	74	77	75	77	70	82
23	79	77	70	67	66	63	64	61	55	56	[ZS]	66	66	73	80	82	82	81	81	82	83	82	76	75	73	83
24	72	70	69	68	61	51	51	56	53	56	53	72	83	84	86	88	91	94	97	108	107	98	94	92	77	108
25	83	75	70	70	64	76	79	76	76	73	67	71	[ZS]	60	66	87	84	82	81	80	81	81	80	79	76	87
26	77	78	80	81	83	81	82	81	80	79	84	85	85	84	84	83	81	83	81	77	79	79	75	76	81	85
27	76	71	79	73	76	74	74	73	73	69	81	87	77	84	84	83	83	76	64	62	54	52	57	54	69	84
28	49	51	67	64	58	58	67	65	65	65	56	[CA]	74	75	80	82	77	76	72	72	70	63	64	59	66	82
AV	77	74	74	74	73	73	72	70	69	68	69	72	79	80	82	85	86	85	84	83	82	80	79	76	77	108
SD	8	8	7	7	9	9	8	8	8	8	10	13	6	7	6	5	5	6	8	9	9	9	8	11	10	[ ]

OZONE [CC.111]

MICROGRAMS./CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4

MAR, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

0Y	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	49	51	57	60	47	46	53	63	58	51	60	66	67	76	77	79	79	76	78	76	71	68	69	71	65	79
2	67	66	60	67	73	77	76	77	37	76	79	83	85	89	87	85	84	83	80	77	81	80	71	69	75	89
3	70	70	60	60	60	55	54	60	50	44	51	53	56	86	84	83	85	84	83	85	76	76	73	70	68	86
4	65	66	62	56	58	47	53	50	48	53	59	54	57	62	67	70	74	73	70	73	73	76	79	82	64	82
5	85	83	83	82	84	83	77	78	76	76	76	67	65	69	67	67	67	71	80	80	82	74	73	73	76	85
6	76	74	73	71	74	74	76	76	78	78	82	83	85	85	87	87	92	98	94	94	89	80	80	82	82	98
7	76	78	76	76	67	71	67	67	67	60	53	[ZS]	67	68	71	67	74	76	71	71	74	66	63	71	69	78
8	74	73	72	69	69	68	60	57	64	[PC]	74	76	76	80	80	82	81	79	78	77	76	74	72	69	73	82
9	66	74	68	70	72	71	67	64	64	58	[ZS]	76	79	82	82	81	80	79	77	77	72	75	72	69	73	82
10	69	63	66	66	61	58	56	59	54	51	59	69	71	73	75	76	75	69	76	76	72	73	70	69	67	76
11	24	60	62	60	51	53	46	52	48	[ZS]	55	59	66	67	76	76	79	80	84	80	80	90	91	89	68	91
12	90	96	80	80	76	68	67	66	56	62	73	69	78	85	89	90	89	92	98	93	89	85	81	79	60	98
13	80	73	69	73	76	68	72	74	61	65	59	79	72	76	77	77	78	77	78	78	79	83	84	79	74	84
14	72	76	75	72	71	64	59	53	53	56	70	71	72	73	78	81	83	72	75	78	81	72	73	78	72	83
15	83	80	69	69	65	73	80	80	77	76	76	72	[CA]	76	76	79	80	82	83	83	81	80	75	73	77	83
16	75	75	76	66	71	71	72	56	62	69	71	76	76	[SA]	[SA]	75	82	83	82	80	73	71	70	68	73	83
17	72	67	58	58	54	53	49	49	50	56	58	64	68	74	76	76	79	85	87	87	90	97	105	100	71	105
18	86	84	79	75	67	69	66	60	54	54	66	76	76	76	78	85	85	87	86	90	92	91	89	87	77	92
19	86	85	85	82	78	76	73	69	67	67	[ZS]	70	81	84	85	87	87	86	83	84	86	90	89	87	81	90
20	84	83	81	79	78	78	76	78	78	79	78	79	80	80	81	82	82	83	82	79	75	74	76	78	79	84
21	80	79	79	74	78	78	76	70	64	68	74	[ZS]	73	78	81	81	80	81	82	80	78	79	75	76	76	82
22	62	70	69	64	57	56	64	63	64	70	74	72	82	82	82	85	86	83	73	84	82	81	84	85	74	86
23	83	79	81	79	78	82	79	79	76	81	86	87	88	86	87	91	89	89	89	88	87	84	81	82	84	91
24	82	81	83	86	82	82	81	79	64	62	59	79	[ZS]	83	83	82	82	92	94	94	91	83	80	82	81	94
25	83	83	84	86	84	83	83	82	83	82	85	85	[ZS]	87	87	87	87	86	86	82	82	83	83	72	84	89
26	75	73	68	68	68	66	64	63	64	63	67	70	72	77	78	78	78	79	77	77	77	71	69	65	71	79
27	63	75	77	74	67	65	65	63	63	63	77	79	83	85	86	85	86	86	83	81	71	79	80	76	76	86
28	72	71	69	72	76	79	70	66	69	71	76	83	86	91	94	95	95	95	90	87	83	83	86	87	81	95
29	87	91	89	87	86	78	66	65	67	79	85	87	91	[ZS]	91	92	92	92	89	90	86	87	86	87	85	92
30	90	91	90	88	86	85	85	84	82	81	77	77	77	71	81	85	88	89	87	82	77	77	77	71	82	91
31	76	79	79	77	75	74	73	71	75	79	81	81	83	[ZS]	92	92	91	91	85	87	86	84	86	87	82	92
AV	76	75	74	73	71	70	63	67	64	67	70	74	76	78	81	82	83	83	83	82	80	80	79	78	76	105
SD	10	9	9	9	10	11	10	10	11	11	10	9	9	8	7	7	6	7	7	6	6	7	9	8	10	1

OZONE (CC,11)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

APR, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	83	32	74	73	81	78	78	77	72	81	82	84	[PC]	86	87	87	87	86	83	78	75	75	75	72	60	87	
2	68	70	65	69	73	69	64	54	51	51	55	63	72	79	80	78	80	82	80	81	78	81	81	82	71	82	
3	82	85	84	86	85	85	82	82	81	80	80	81	82	82	82	79	81	83	79	77	68	66	70	72	80	86	
4	65	73	77	77	77	77	78	78	79	81	84	[CA]	88	91	92	91	87	87	88	91	91	89	87	87	83	92	
5	86	85	85	83	81	78	78	79	80	81	83	88	89	90	87	86	86	85	85	86	85	83	82	81	84	90	
6	79	78	77	78	78	77	75	73	76	82	84	86	88	90	90	90	90	90	90	90	88	89	82	83	86	83	
7	83	83	80	77	65	68	63	66	68	80	[SA]	[SA]	92	95	99	95	96	96	96	92	95	91	82	78	84	99	
8	78	81	80	75	89	85	81	86	86	94	94	91	94	94	94	94	94	92	90	90	88	88	81	83	88	94	
9	81	79	74	74	74	72	72	70	34	73	84	92	94	95	95	95	95	92	91	93	92	94	91	90	83	95	
10	89	87	85	82	87	88	92	100	107	111	108	104	108	108	110	109	108	108	108	109	105	100	100	99	100	111	
11	100	100	95	94	92	91	86	87	94	95	90	95	[ZS]	99	101	99	95	92	94	87	91	92	92	97	94	101	
12	94	91	86	88	85	80	72	70	86	90	94	96	99	99	89	90	87	87	91	81	81	75	74	73	86	99	
13	72	69	68	66	64	63	62	63	64	66	66	[ZS]	78	84	85	86	86	84	84	85	91	90	87	85	76	91	
14	83	83	82	82	77	77	77	76	82	86	87	87	88	91	93	93	95	94	91	94	90	90	90	87	82	86	95
15	69	67	66	66	67	71	61	66	71	79	[ZS]	82	89	89	89	87	89	89	86	87	87	82	81	79	78	89	
16	79	77	62	66	69	69	67	71	81	74	82	89	96	97	99	101	102	101	101	96	99	94	94	99	86	102	
17	92	87	84	81	77	81	84	79	76	74	97	99	97	96	94	94	87	92	87	82	87	84	81	81	86	99	
18	77	72	69	69	69	71	67	56	66	61	69	[ZS]	101	99	96	92	87	92	94	87	86	77	77	79	79	101	
19	77	79	82	82	82	86	81	72	74	87	87	89	92	92	92	91	92	94	92	92	86	84	91	86	86	94	
20	87	89	87	77	74	74	74	66	66	76	79	[RF]	[ZS]	96	94	91	87	86	82	81	84	84	86	89	82	96	
21	82	76	81	79	74	69	74	79	76	74	81	79	84	84	82	86	81	82	77	82	86	89	87	79	80	89	
22	79	79	79	79	69	61	61	67	79	82	84	[ZS]	87	93	91	89	86	86	81	74	76	71	71	71	78	93	
23	66	66	64	64	62	64	62	59	59	74	76	81	81	82	82	88	88	88	86	86	79	79	81	77	74	88	
24	82	84	79	74	77	81	77	79	81	86	86	93	93	96	94	93	99	103	99	98	98	94	94	91	89	103	
25	83	86	86	88	88	81	77	93	93	93	93	[ZS]	93	96	98	99	96	93	93	91	96	96	96	96	91	99	
26	94	93	81	83	84	77	76	74	84	86	88	86	86	86	86	89	86	86	83	81	83	81	84	84	85	94	
27	93	91	91	83	86	84	84	84	81	93	[ZS]	101	93	101	98	94	94	93	93	91	88	84	86	81	89	101	
28	74	74	76	64	66	71	64	61	62	72	86	78	79	86	88	88	84	83	78	69	72	71	61	67	74	88	
29	64	66	59	56	59	62	66	69	66	[ZS]	67	76	79	79	76	79	79	79	86	83	79	74	71	84	74	86	
30	67	67	66	78	74	79	93	89	94	86	98	96	96	99	99	98	78	99	99	98	99	93	89	88	89	99	
AV	80	80	78	76	76	76	74	75	76	81	84	88	90	92	91	91	89	90	89	87	86	85	84	83	83	111	
SD	9	9	9	9	9	8	9	11	14	11	11	9	8	7	7	6	7	6	7	8	9	8	8	8	11	11	

OZONE [CC:11]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONAHZA, UTAH  
 SITE 4

MAY, 1983

AEROVIROINMENT INC.

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

07	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	79	78	81	79	78	78	79	76	76	76	78	78	78	79	79	81	83	79	89	88	83	78	69	64	79	89
2	71	49	47	47	62	51	54	64	71	73	[CA]	78	81	83	84	83	86	84	78	76	76	78	68	68	70	86
3	66	69	68	64	64	62	51	56	59	66	74	83	81	79	79	79	79	79	78	79	78	71	69	74	71	83
4	78	66	69	63	57	51	47	61	64	61	[ZS]	74	78	80	81	80	85	86	80	76	78	80	76	76	72	86
5	80	66	71	66	75	63	64	78	97	105	105	103	102	102	103	105	102	100	100	100	95	97	92	88	90	105
6	81	85	81	93	92	81	87	83	85	[ZS]	92	92	90	92	93	92	95	93	88	88	87	82	82	80	88	95
7	82	78	70	68	68	70	66	58	65	75	80	82	83	83	90	90	94	88	83	80	92	83	90	92	79	94
8	85	89	85	90	89	89	89	65	66	75	73	95	101	99	92	94	94	97	92	89	82	80	85	82	87	101
9	84	87	89	97	101	92	85	89	[ZS]	94	94	96	97	97	99	106	108	113	111	109	106	102	97	99	113	
10	99	92	84	82	85	85	87	85	91	89	91	89	92	94	94	96	92	89	92	89	92	91	89	90	90	99
11	94	98	96	92	82	77	86	84	98	104	111	113	120	96	80	79	82	86	82	81	75	74	74	75	89	120
12	75	70	65	63	67	69	70	77	81	[ZS]	91	93	96	99	99	101	99	99	98	91	93	86	88	77	85	101
13	84	82	79	82	84	82	82	79	79	[PC]	79	88	86	84	88	88	84	88	84	77	79	79	76	76	83	89
14	77	72	72	67	67	62	64	72	71	76	77	77	83	86	93	95	91	89	90	84	95	98	95	100	81	100
15	98	93	84	72	67	62	81	83	81	96	96	98	96	93	91	93	95	91	86	86	78	83	83	78	88	98
16	64	62	67	66	78	86	74	74	76	66	[ZS]	86	86	85	86	81	86	86	85	85	93	92	86	85	80	93
17	83	78	76	71	74	80	85	80	80	78	83	85	88	85	86	83	83	81	81	74	73	74	69	64	79	88
18	66	52	56	57	59	62	57	59	71	81	87	93	92	99	90	87	87	85	87	83	80	75	69	64	75	99
19	71	70	64	64	58	55	51	67	77	[ZS]	78	77	78	75	77	85	83	79	82	77	78	74	73	73	87	87
20	67	65	64	58	56	50	39	47	61	68	80	85	91	95	98	104	104	103	107	107	109	105	90	88	81	109
21	83	80	92	85	88	88	88	82	82	88	91	92	93	94	95	97	99	98	103	119	112	107	102	101	94	119
22	98	91	91	82	80	77	70	68	79	100	97	104	109	111	110	109	110	107	104	100	95	97	94	96	111	
23	92	82	83	85	86	82	79	70	57	98	107	111	114	114	116	119	121	122	119	111	106	103	98	98	122	
24	94	95	96	93	87	83	70	65	76	83	[ZS]	103	110	109	98	98	97	98	98	94	95	86	83	77	91	110
25	83	83	83	79	73	79	73	64	65	68	83	[ZS]	101	105	108	110	109	109	107	110	100	97	93	83	90	110
26	85	77	79	80	82	76	59	61	76	88	92	100	103	106	107	107	107	107	104	100	94	94	86	91	107	100
27	81	86	95	88	89	86	82	70	72	91	98	[PC]	109	110	109	103	101	103	103	103	106	98	94	84	94	110
28	81	86	75	70	67	68	64	59	70	80	91	100	107	108	107	104	101	103	92	91	88	86	85	80	86	108
29	77	79	71	73	68	65	53	53	73	80	77	81	84	92	95	100	100	100	94	87	87	91	88	82	81	100
30	71	73	65	61	58	68	66	77	[ZS]	87	90	92	92	91	89	89	89	91	87	82	91	96	96	91	82	96
31	95	90	85	81	80	80	80	80	82	83	89	98	103	105	98	98	93	91	84	79	82	76	72	74	87	105
MV	81	76	77	75	75	73	70	70	76	82	89	91	94	95	94	95	95	95	93	91	90	88	85	82	85	122
SD	10	12	12	13	12	12	14	11	11	12	10	11	11	11	10	10	10	11	12	12	12	11	11	10	14	14



OZONE [CC:11]

MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JUN, 1983

AEROSOL INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	73	74	73	68	65	65	56	61	56	67	[CA]	[CA]	83	87	89	90	96	98	97	100	102	101	108	108	83	108	
2	105	102	102	107	58	90	77	86	95	116	130	141	134	140	142	139	135	138	138	114	107	107	101	94	114	142	
3	98	81	68	75	72	70	63	64	80	103	119	110	[ZS]	125	121	124	126	125	122	120	116	99	89	87	98	126	
4	95	93	92	86	81	81	71	74	77	84	98	114	122	138	133	132	132	126	123	124	110	100	111	99	104	138	
5	86	87	83	80	76	63	63	67	57	75	77	80	83	81	86	87	93	93	92	87	84	87	83	82	81	93	
6	82	81	72	66	73	66	63	67	57	72	[ZS]	93	94	96	91	90	87	80	76	68	77	72	67	54	76	96	
7	59	62	64	62	55	48	45	34	45	69	82	82	85	86	85	86	87	87	87	85	84	75	72	67	71	87	
8	64	66	63	64	67	56	51	60	66	76	[ZS]	77	83	109	109	102	112	102	100	97	94	88	79	82	81	112	
9	76	74	77	86	82	77	53	46	63	78	88	92	95	100	112	111	109	99	100	97	96	93	95	92	87	112	
10	91	93	80	78	67	72	74	81	84	[ZS]	88	93	95	94	94	93	101	106	100	94	83	79	79	85	87	106	
11	88	90	91	83	74	73	73	58	77	95	98	104	112	104	103	104	104	101	102	95	112	102	100	92	93	112	
12	93	90	74	53	61	61	64	59	73	88	90	85	86	95	92	87	90	95	93	87	60	82	98	101	82	101	
13	101	95	78	77	69	68	72	63	75	77	65	[ZS]	90	86	93	91	92	92	91	91	92	87	77	71	82	101	
14	69	65	65	65	62	60	58	51	56	66	81	90	93	93	94	95	98	99	100	96	93	87	89	93	80	100	
15	96	92	90	92	92	77	62	64	63	75	92	[ZS]	90	88	84	85	89	86	81	82	74	78	74	77	82	96	
16	75	69	69	64	64	60	45	49	58	71	76	79	86	98	98	97	101	112	118	122	120	112	108	108	86	122	
17	102	97	91	84	84	78	66	63	74	75	[ZS]	100	92	84	86	88	88	86	86	99	100	100	97	94	88	102	
18	92	91	95	94	96	93	97	97	104	112	114	108	102	100	100	99	99	96	93	91	91	88	89	85	97	114	
19	82	83	83	82	82	79	76	69	86	101	107	110	116	121	121	118	118	119	125	124	119	119	115	116	103	125	
20	110	100	94	92	91	84	81	77	72	86	101	121	125	118	103	93	87	86	89	86	82	78	76	76	92	125	
21	73	71	68	70	68	65	64	61	74	80	80	80	83	85	86	88	84	82	82	81	80	82	84	84	77	88	
22	75	71	74	73	67	65	58	65	67	[ZS]	74	73	73	75	74	76	75	73	75	77	72	72	71	73	72	77	
23	73	72	72	72	74	73	71	58	52	62	77	75	73	74	77	80	81	82	84	84	85	86	80	80	75	86	
24	74	69	75	77	77	73	81	71	68	80	81	[PC]	81	91	87	95	91	87	80	72	71	69	65	65	77	95	
25	74	65	60	44	57	53	53	53	63	60	70	89	102	105	98	93	91	89	97	105	99	107	120	116	82	120	
26	85	87	91	84	86	86	79	67	69	87	99	100	103	100	101	97	97	100	97	93	93	87	81	95	90	103	
27	85	81	78	64	75	79	67	64	64	81	[ZS]	90	88	84	92	99	103	96	84	93	87	68	79	80	82	103	
28	75	66	62	60	57	50	49	51	61	72	77	83	93	99	100	108	115	117	118	121	117	114	111	109	87	121	
29	96	79	90	85	79	77	73	65	78	82	[ZS]	107	99	98	99	104	107	107	105	100	101	119	112	95	119	119	
30	103	105	98	97	95	98	98	100	100	110	118	121	126	128	125	121	111	112	106	97	87	104	101	94	107	128	
AV	85	82	79	76	75	71	66	65	71	82	91	96	96	99	99	99	100	99	98	96	94	91	91	89	87	142	
SD	13	13	12	14	12	12	13	14	14	15	17	17	16	17	16	15	15	15	16	15	14	15	16	16	16	16	142



OZONE (CC111)

MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JUL, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	95	89	79	75	75	80	71	68	59	83	[ZS]	87	88	89	89	94	102	100	101	97	91	91	88	85	86	102	
2	85	92	80	80	82	83	83	84	84	97	104	101	97	90	100	110	109	111	110	105	95	95	77	56	55	90	111
3	58	56	52	61	54	46	47	55	65	75	88	90	94	96	98	101	102	104	107	104	104	102	102	101	82	107	
4	96	95	95	88	83	83	70	71	77	81	89	90	95	102	107	110	111	114	115	108	102	102	96	92	95	115	
5	82	83	84	77	79	75	62	65	74	78	93	[CA]	[CA]	89	89	87	89	90	88	85	96	98	94	93	84	98	
6	91	79	76	73	72	69	67	60	69	69	80	80	83	84	83	86	85	81	71	75	71	71	78	90	77	91	
7	87	82	80	76	75	75	72	68	78	83	84	87	84	84	83	86	86	81	87	92	91	93	86	84	82	93	
8	86	79	86	87	85	80	64	82	78	79	80	80	90	91	92	91	91	94	94	83	83	80	80	85	94	94	
9	80	79	76	73	63	66	60	53	51	73	77	[PC]	85	86	86	87	90	87	85	85	84	80	83	87	77	90	
10	79	68	77	80	79	75	80	88	89	97	100	106	107	103	106	106	104	105	119	135	127	102	95	91	97	135	
11	83	82	77	74	74	72	74	74	77	80	83	[ZS]	90	101	109	112	111	113	109	104	106	105	96	95	91	113	
12	90	87	85	83	85	82	71	77	81	76	93	97	100	105	102	103	106	106	106	104	101	97	90	95	93	106	
13	96	93	89	87	86	84	70	66	70	81	91	[SA]	[SA]	[SA]	[SA]	92	94	94	95	94	96	89	80	72	86	96	
14	74	72	73	69	68	62	56	58	64	72	82	82	76	[PF]	[PF]	[PF]	[PF]	93	98	98	98	95	91	90	79	96	
15	96	101	107	109	109	107	107	107	115	123	119	[ZS]	112	104	99	100	94	89	86	91	89	91	94	83	101	123	
16	79	80	79	79	75	80	75	74	79	83	87	88	91	106	111	116	121	123	123	121	112	105	95	88	95	123	
17	83	83	86	83	79	81	80	77	90	94	99	97	96	92	92	95	95	94	92	88	86	82	77	77	87	99	
18	77	77	79	77	75	73	69	75	81	92	[ZS]	99	101	99	98	92	92	92	90	90	86	83	84	86	86	101	
19	92	94	92	92	82	85	83	76	78	81	89	94	93	95	95	99	101	100	99	93	89	92	89	77	90	101	
20	67	65	72	80	85	79	74	73	84	82	[ZS]	90	92	86	87	87	79	80	79	71	50	57	46	44	74	92	
21	44	40	41	49	52	57	49	45	50	57	68	[PC]	84	90	86	90	90	90	85	82	79	82	72	59	67	90	
22	56	46	49	52	46	49	44	47	47	49	61	66	67	67	82	86	87	88	82	62	85	83	68	64	86	88	
23	67	71	71	66	46	43	42	45	57	65	73	74	76	84	84	89	88	93	91	79	67	63	63	68	69	93	
24	59	53	63	43	43	38	40	39	54	67	70	72	84	92	90	93	90	88	86	85	80	78	76	80	69	93	
25	83	82	74	69	68	67	64	67	75	76	[ZS]	73	83	84	81	77	76	76	73	84	84	84	82	84	77	84	
26	83	83	82	84	83	84	83	75	75	76	77	77	75	73	70	70	76	78	73	75	84	79	78	77	77	84	
27	75	73	62	66	62	62	49	51	50	63	[ZS]	96	77	70	65	66	68	66	61	57	56	59	60	63	64	96	
28	57	65	58	56	54	53	45	48	70	72	74	79	80	81	81	78	76	80	85	84	83	80	81	82	71	85	
29	82	83	74	75	73	71	65	59	63	71	83	[ZS]	93	95	99	95	94	92	90	90	83	77	75	82	99		
30	81	77	73	62	62	64	49	58	73	80	85	83	90	91	92	91	89	86	83	74	59	60	68	74	92		
31	72	74	92	95	92	86	87	83	81	80	97	104	111	107	107	108	109	105	111	105	98	93	87	81	94	111	
AV	79	77	76	75	72	71	66	66	72	78	85	87	90	92	92	93	94	93	93	92	88	85	81	80	82	135	
SD	13	14	14	14	15	15	15	15	13	13	12	11	10	9	11	12	12	13	14	16	16	13	13	13	13	16	16

OZONE (CG:11)

MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4

AUG. 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	88	89	87	93	74	75	67	71	88	[CAJ]	[CAJ]	110	108	112	116	115	114	111	103	100	101	103	97	88	93	115
2	80	69	77	76	86	92	90	80	80	91	96	103	99	112	116	110	110	104	98	104	99	98	84	75	93	116
3	85	90	79	85	82	77	64	65	68	70	91	100	111	109	110	113	116	116	116	113	109	92	95	90	94	116
4	91	95	90	93	99	82	86	87	74	[CAJ]	[CAJ]	100	110	120	111	114	114	118	111	111	106	88	93	86	59	120
5	88	85	84	89	73	74	73	66	82	95	98	113	[PC]	121	126	127	127	123	123	122	123	109	103	95	101	127
6	93	89	85	85	88	79	72	59	69	91	111	129	131	129	129	129	130	133	128	114	109	107	111	105	133	133
7	110	105	103	107	109	113	113	102	113	121	121	123	126	125	124	128	128	123	125	128	120	114	109	95	116	128
8	93	101	105	105	103	101	91	86	[ZS]	96	112	120	119	124	126	126	123	121	114	110	96	88	91	86	106	126
9	82	81	85	87	80	87	80	84	93	97	98	101	102	102	102	102	101	97	102	96	99	95	90	84	92	102
10	84	90	97	98	98	88	85	86	88	106	107	112	118	122	122	123	125	124	120	119	129	119	108	108	108	129
11	110	109	113	108	99	92	88	76	89	100	107	[ZS]	97	105	110	111	118	116	114	117	107	91	89	93	103	116
12	81	90	73	57	72	78	86	65	67	83	95	100	106	107	97	93	95	99	97	99	97	86	69	87	107	107
13	78	71	75	80	70	69	60	47	57	63	83	93	98	99	97	96	98	101	101	100	101	91	74	79	83	101
14	81	89	81	79	77	79	72	64	67	79	93	95	94	96	96	90	85	90	86	76	73	79	80	76	82	96
15	70	64	64	62	63	47	44	43	57	64	[ZS]	76	78	81	99	89	99	114	113	103	94	99	100	99	79	114
16	97	94	94	84	86	74	73	68	72	90	98	100	106	105	107	97	103	112	105	93	98	98	106	110	95	112
17	105	101	86	82	73	68	61	70	76	87	[ZS]	105	111	115	112	111	110	108	103	97	98	91	86	89	93	115
18	87	86	82	75	75	75	81	61	65	72	80	[PC]	91	91	94	95	90	88	85	79	71	74	71	70	82	105
19	105	101	82	74	75	75	79	81	59	59	61	59	59	65	69	76	80	80	81	80	83	82	82	82	82	83
20	65	55	55	54	52	54	63	59	50	59	61	59	61	60	80	82	82	82	82	82	76	73	72	71	74	82
21	76	71	63	70	70	68	58	48	50	60	70	78	79	78	80	82	84	85	85	83	79	77	72	71	71	85
22	78	68	66	64	56	58	50	52	54	63	67	75	78	80	82	84	85	85	85	83	79	77	72	71	71	85
23	72	74	63	68	68	72	64	55	48	66	[ZS]	82	91	92	93	95	96	94	90	83	81	83	82	85	78	96
24	82	81	78	73	77	71	60	63	60	71	[ZS]	83	88	92	90	91	91	95	94	95	90	87	81	77	81	95
25	73	71	71	68	69	69	63	58	55	70	75	81	80	85	88	90	90	91	90	91	90	86	83	82	79	91
26	80	80	75	73	69	68	67	53	63	69	79	[ZS]	88	90	89	90	89	88	87	83	84	82	82	82	79	90
27	69	72	74	73	70	70	64	63	64	69	75	81	92	92	92	92	92	91	88	89	82	73	82	87	79	92
28	88	78	77	75	72	68	66	61	59	73	80	88	94	106	100	94	93	97	100	96	96	96	82	74	84	106
29	74	79	77	75	64	71	64	60	63	[ZS]	91	101	98	97	99	103	104	103	98	93	95	98	97	93	87	104
30	87	85	77	79	81	75	63	53	55	62	86	93	101	105	102	101	101	97	94	94	90	65	59	61	82	105
31	65	66	61	63	64	61	60	48	51	60	[ZS]	79	93	101	104	104	102	103	102	101	89	89	87	91	80	104
AV	84	83	80	79	77	75	71	65	68	79	90	95	98	102	102	102	103	103	101	98	95	90	88	86	88	133
SD	12	13	13	14	14	13	14	14	14	16	15	16	15	16	14	14	14	14	13	14	14	14	13	12	18	[ ]

OZONE (CC:11)

MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONHIZA, UTAH  
SITE 4

SEP, 1983

AEROENVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	83	85	80	81	77	64	64	60	60	71	64	85	94	114	117	113	111	113	109	114	119	100	94	92	119		
2	87	91	71	61	72	61	62	73	83	92	98	[PC]	99	113	114	111	111	111	100	96	86	85	71	88	114		
3	69	74	71	59	60	62	49	56	67	81	85	91	97	101	104	105	101	99	95	85	79	71	79	105	105		
4	76	69	64	65	61	54	56	50	55	72	87	89	92	93	91	89	90	91	88	83	81	85	81	78	93		
5	73	77	74	76	78	84	80	65	77	81	80	83	83	82	82	84	86	84	84	86	86	88	85	82	81	88	
6	76	72	70	71	72	71	68	58	66	63	75	[CA]	84	92	88	86	84	83	82	82	80	80	80	82	71	92	
7	72	74	71	62	62	61	56	48	57	62	72	78	77	87	98	112	112	100	94	94	89	85	82	76	78	112	
8	78	77	76	72	70	68	66	72	76	80	84	86	89	93	94	94	96	94	95	95	91	88	88	83	96	96	
9	86	83	80	80	78	78	76	74	76	[ZS]	76	79	77	76	76	76	77	79	75	81	82	82	81	79	86		
10	71	74	75	79	81	76	71	60	65	69	78	84	86	83	84	86	86	87	86	83	87	101	99	95	81	101	
11	89	84	85	85	85	78	79	68	58	70	83	84	87	89	89	86	87	84	79	73	72	74	77	85	80	89	
12	77	71	62	67	61	64	61	55	61	[ZS]	68	74	77	76	69	61	59	60	60	60	61	59	54	50	64	77	
13	49	48	47	43	45	42	45	38	45	56	66	66	71	74	74	80	79	76	78	71	67	66	64	61	80		
14	66	63	64	58	49	45	52	58	55	70	[ZS]	74	78	81	83	82	83	82	84	101	94	86	82	80	73	101	
15	72	73	73	73	72	66	59	54	57	78	86	92	95	96	102	106	109	108	105	104	97	100	100	86	109	109	
16	87	84	86	80	74	69	68	64	61	61	[PC]	80	86	87	85	86	92	100	92	82	84	82	80	72	100	100	
17	74	78	75	67	65	65	74	73	56	77	80	96	94	89	89	88	81	74	73	73	73	76	70	71	77	96	
18	79	75	71	79	78	77	75	78	73	79	82	83	85	87	87	97	91	94	99	98	95	95	94	95	85	99	
19	94	91	91	93	94	95	98	102	[ZS]	101	90	88	79	75	77	77	85	105	110	107	77	67	59	59	88	110	
20	58	57	53	60	61	61	63	65	65	69	71	73	77	82	85	91	97	93	93	91	89	85	84	77	75	97	
21	79	76	72	74	71	66	69	61	58	72	[ZS]	79	86	89	93	96	98	101	102	105	97	97	97	93	84	105	
22	92	92	86	87	76	80	76	68	67	73	88	92	88	111	113	108	106	102	99	93	84	76	75	76	88	113	
23	68	84	84	75	67	67	64	60	58	[ZS]	57	60	53	57	60	59	62	66	66	65	65	67	64	62	65	84	
24	61	60	63	63	61	55	65	70	68	71	73	72	74	76	76	76	74	74	71	70	77	73	72	55	69	77	
25	53	55	57	58	51	52	49	38	39	49	62	69	75	81	84	86	87	81	73	75	67	63	63	61	64	87	
26	61	56	54	58	57	59	43	38	36	62	69	73	75	77	74	73	74	75	72	75	61	81	80	65	81		
27	73	67	69	70	69	67	63	63	63	[ZS]	67	71	72	75	76	77	77	76	75	70	73	68	65	71	71	78	
28	71	76	75	69	64	64	62	57	42	53	59	64	67	74	77	76	83	85	84	80	80	82	76	72	71	85	
29	74	72	70	70	71	67	64	60	64	[ZS]	74	77	77	76	78	80	80	77	67	60	57	58	55	58	69	80	
30	52	48	63	47	56	50	53	60	59	59	52	[PC]	56	60	68	74	76	72	69	68	64	55	56	57	60	76	
AV	74	73	72	69	68	66	65	61	62	67	75	79	80	84	86	87	88	88	86	84	82	80	77	75	76	119	
SD	12	12	10	11	11	12	10	12	13	11	12	10	11	11	13	15	14	14	14	14	13	14	13	13	13	15	[ ]



OZONE (OC:11)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

OCT, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	58	62	64	55	52	55	55	62	61	65	67	66	72	76	70	60	62	58	66	70	66	65	63	52	63	76	
2	60	60	61	61	63	59	62	76	78	70	77	82	81	83	84	86	82	81	86	76	73	73	77	80	74	86	
3	74	77	76	74	76	71	50	57	63	63	60	72	80	75	82	89	91	89	88	86	82	78	78	76	76	91	
4	72	65	65	67	70	60	59	55	44	63	60	72	80	81	81	80	78	74	72	72	72	72	72	68	69	81	
5	67	65	61	60	55	55	52	43	39	49	61	68	70	76	69	68	61	66	68	64	54	61	66	68	61	76	
6	63	60	61	60	61	49	54	47	47	49	61	68	70	79	81	73	64	60	69	78	79	77	75	75	65	81	
7	71	70	64	64	62	59	60	41	40	47	47	65	69	71	70	67	65	69	72	70	65	67	60	58	63	72	
8	56	54	50	50	43	48	46	47	46	37	40	54	59	65	76	75	75	71	75	76	73	75	75	76	60	72	
9	75	69	62	67	67	69	65	61	65	65	68	71	69	69	73	72	71	71	71	74	75	74	72	70	70	75	
10	67	65	62	59	57	52	49	47	53	52	71	76	72	76	79	83	85	82	83	78	74	70	70	66	69	85	
11	60	59	57	55	49	40	49	51	57	62	65	68	72	78	81	81	81	79	80	75	73	70	74	75	67	81	
12	72	70	68	65	61	66	64	56	51	54	73	84	85	85	83	83	82	78	79	79	73	66	66	58	71	85	
13	62	63	62	63	57	53	52	50	41	42	59	65	70	75	78	80	83	82	77	74	77	73	63	68	66	83	
14	75	73	72	82	74	66	66	71	65	74	76	77	77	78	78	78	78	79	73	71	68	69	69	70	73	82	
15	72	70	72	70	68	68	67	62	63	70	76	82	82	80	82	84	83	82	81	72	70	70	75	62	73	84	
16	68	64	66	64	64	62	52	49	43	55	69	78	74	74	78	81	81	81	81	78	72	75	70	73	75	69	81
17	70	74	69	72	68	66	66	58	47	46	60	62	64	70	75	80	83	80	83	82	73	77	82	83	73	83	
18	77	70	70	67	67	64	68	66	60	72	79	79	78	84	84	86	90	88	84	84	85	84	78	76	77	90	
19	71	73	77	81	80	78	78	78	78	84	84	87	89	91	93	93	92	88	86	85	84	85	85	85	85	93	
20	72	72	74	72	71	68	65	59	52	68	80	87	93	94	94	93	91	89	90	85	84	77	76	76	77	94	
21	70	71	66	71	71	63	65	64	58	52	68	75	87	90	92	94	97	96	96	90	87	85	83	77	78	97	
22	75	74	75	71	73	68	65	64	58	56	68	73	84	90	90	90	88	89	89	86	86	86	84	84	84	90	
23	81	77	77	76	69	66	67	65	59	59	60	80	84	82	84	84	85	84	86	86	83	84	82	78	77	86	
24	80	79	73	67	67	63	58	58	58	58	73	78	79	79	79	79	79	80	78	76	75	76	77	76	74	80	
25	74	74	71	65	59	60	59	59	50	48	59	74	78	79	83	84	82	83	84	85	81	79	76	67	71	85	
26	70	61	59	59	57	54	53	50	54	48	47	66	84	82	78	81	83	81	83	84	83	77	70	64	68	84	
27	57	62	60	58	53	55	58	55	45	43	58	79	78	77	80	75	77	77	86	80	74	68	68	72	66	86	
28	69	70	66	73	67	66	68	59	61	60	68	80	80	80	89	100	100	100	99	94	90	93	89	86	79	100	
29	81	71	67	76	74	72	70	69	61	62	66	82	90	93	96	100	100	100	97	88	89	92	86	80	82	100	
30	83	85	81	77	79	75	76	72	65	60	71	78	84	86	86	82	78	85	88	85	85	88	84	85	80	88	
31	81	63	61	67	72	65	61	63	65	68	73	78	80	81	82	79	76	75	70	65	56	59	59	56	69	82	
AV	71	69	67	67	65	62	62	58	55	59	66	74	78	80	82	82	81	80	81	79	76	75	74	72	72	100	
SD	8	7	7	8	9	8	8	10	10	11	9	8	7	7	7	9	10	10	9	8	9	9	8	9	12	11	

OZONE [00:11]

MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHAINZA, UTAH  
SITE 4

NOV, 1963

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/64 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	63	50	54	54	44	37	44	48	48	40	59	[LCA]	63	67	68	67	69	69	72	70	72	70	64	62	58	72	
2	65	61	61	52	56	51	51	52	52	46	52	[ZS]	66	69	70	70	68	68	67	69	60	51	49	49	59	70	
3	49	43	46	47	42	40	50	33	25	32	42	44	52	62	67	77	76	77	78	75	67	64	61	55	54	78	
4	49	51	54	46	43	50	47	43	39	29	48	62	67	74	78	76	77	78	69	67	65	69	74	59	78	74	
5	64	67	72	65	70	56	56	54	46	42	46	[ZS]	58	64	72	71	74	65	62	63	64	64	64	65	62	74	
6	61	57	56	55	56	56	55	57	55	41	55	63	65	69	71	68	69	76	78	78	76	71	66	64	78	75	
7	69	70	73	69	63	73	71	67	51	48	46	[ZS]	50	54	59	66	67	68	75	73	74	73	68	59	65	75	
8	58	62	62	57	62	66	72	71	68	76	71	69	71	75	73	69	70	71	61	64	62	63	61	67	76	76	
9	60	54	55	52	50	57	52	46	46	50	61	59	[ZS]	64	65	67	66	63	66	64	61	59	57	58	67	67	
10	55	59	38	41	48	50	43	42	36	37	48	57	59	57	51	55	58	54	58	61	58	55	55	57	51	61	
11	48	45	43	38	41	41	32	37	28	29	37	[PC]	39	40	43	51	59	47	45	56	51	52	53	51	44	59	
12	46	52	59	56	46	43	27	27	27	35	45	61	59	61	63	63	63	64	65	65	54	56	60	54	52	65	
13	45	48	59	61	61	54	65	73	72	70	74	78	80	81	79	79	74	76	74	66	67	67	58	66	68	81	
14	65	78	82	83	82	81	78	72	73	75	75	75	76	78	79	80	80	77	76	78	76	68	67	65	76	83	
15	64	64	57	56	60	60	54	55	57	45	47	[ZS]	56	53	58	60	59	62	60	58	59	60	54	56	57	64	
16	57	52	46	38	43	38	38	36	32	35	41	49	49	56	[ZS]	67	65	61	58	59	60	57	58	53	50	67	
17	54	46	47	46	44	42	46	59	29	38	[ZS]	46	55	63	67	68	71	63	62	68	74	71	67	67	56	74	
18	68	62	51	48	53	45	67	61	69	73	60	67	73	73	73	77	79	76	74	74	70	70	70	70	67	79	
19	64	62	60	60	60	62	58	59	55	64	66	70	70	70	70	68	68	68	68	68	68	70	70	70	70	66	70
20	70	68	64	56	55	57	55	46	46	46	45	50	48	52	47	44	44	41	39	38	38	45	45	43	50	70	
21	37	37	46	37	37	43	46	59	72	74	[ZS]	92	88	87	85	87	87	85	81	76	75	69	67	68	67	92	
22	66	61	60	62	58	55	52	49	47	47	49	52	55	58	61	60	60	61	61	60	58	53	52	58	56	66	
23	58	56	54	54	56	54	56	49	45	57	52	57	[ZS]	69	69	70	71	72	71	72	71	67	64	62	56	72	
24	60	60	51	54	58	44	42	40	46	56	68	68	69	73	73	75	79	79	76	75	76	80	80	79	65	80	
25	73	72	71	75	74	75	73	74	72	68	66	[ZS]	68	71	75	75	75	78	75	70	67	63	66	64	71	78	
26	70	70	68	62	63	62	64	63	64	68	75	77	76	73	73	72	71	68	68	69	70	70	70	69	69	77	
27	69	68	66	66	66	63	62	66	60	57	56	61	66	66	70	71	71	71	70	68	68	68	68	62	59	65	71
28	61	60	63	57	55	51	51	52	50	50	40	[ZS]	61	64	74	76	75	75	76	75	70	69	65	63	73	76	
29	68	67	72	65	70	68	63	65	71	65	69	79	80	80	[ZS]	82	82	81	80	79	77	75	71	67	73	82	
30	66	67	63	54	56	54	53	62	63	64	76	84	90	92	91	91	93	95	97	96	95	88	87	86	78	97	
AV	60	59	59	56	56	54	54	54	52	52	56	64	64	67	68	70	70	70	69	68	67	65	64	62	62	97	
SD	9	10	10	10	11	11	12	12	15	14	13	13	12	11	10	10	10	11	11	10	10	9	9	9	13	1	



0200E (CC:111)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BOHANNAN, UTAH  
 SITE 4

DEC, 1983

AEROVIRONMENT INC.

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	85	77	72	69	67	67	67	62	67	63	66	71	75	73	76	80	79	79	81	84	88	86	84	84	76	88
2	80	79	73	75	72	75	72	69	67	70	71	75	83	88	86	85	82	81	81	81	80	74	74	73	77	88
3	71	68	69	69	69	69	69	64	65	68	68	68	71	71	72	72	73	71	70	69	68	71	77	79	70	79
4	75	72	76	77	78	77	77	70	70	73	71	[CA]	[CA]	70	74	73	74	76	75	75	73	73	75	74	74	78
5	75	74	72	71	69	67	70	70	70	70	71	76	79	[ZS]	81	81	81	79	78	75	73	73	71	71	74	81
6	66	58	69	70	71	67	52	60	57	49	56	57	60	63	70	71	71	71	69	69	70	71	71	71	65	71
7	71	71	70	68	69	69	70	69	69	69	75	[ZS]	82	86	88	90	89	87	86	82	78	76	77	80	77	90
8	78	73	69	62	59	54	60	61	60	53	58	56	52	60	58	63	69	74	71	65	70	64	63	62	63	78
9	65	61	62	58	52	41	35	33	33	63	[ZS]	67	71	76	81	78	77	75	70	66	67	68	61	69	64	81
10	78	76	74	76	78	76	59	47	46	47	48	53	[PC]	74	75	73	78	81	81	82	78	74	76	76	70	82
11	74	76	79	78	70	64	63	65	57	53	51	53	56	66	70	72	74	66	70	67	70	67	74	63	70	79
12	71	75	81	77	72	69	59	64	61	50	61	72	77	78	79	82	79	75	70	66	66	66	67	68	70	82
13	65	62	60	65	73	72	70	70	70	71	73	75	76	78	80	80	81	79	78	76	74	71	66	62	72	81
14	66	68	65	65	68	64	63	64	68	60	[ZS]	62	66	72	70	67	60	62	75	69	67	64	62	58	65	75
15	57	50	53	59	65	67	71	69	66	66	70	78	80	84	84	84	84	82	80	75	72	73	72	74	71	84
16	72	73	70	68	67	67	65	65	65	59	54	55	[ZS]	66	70	76	76	74	71	68	70	71	67	67	68	76
17	67	65	61	60	63	60	63	63	65	65	65	64	69	73	74	76	76	70	78	76	72	68	70	71	69	78
18	72	67	66	64	61	61	56	52	49	56	56	63	69	71	76	79	78	77	75	68	63	68	78	76	67	79
19	72	67	65	56	60	59	61	60	60	60	[ZS]	62	65	67	66	72	76	72	69	63	66	70	69	72	66	76
20	70	72	74	71	74	79	79	70	75	75	75	77	77	79	81	81	81	81	81	81	79	78	73	71	76	81
21	68	64	63	62	61	64	63	60	63	[ZS]	58	59	67	70	73	77	75	75	73	73	72	71	66	63	67	77
22	66	62	68	69	68	66	64	64	68	62	69	[PC]	75	80	83	85	86	84	82	83	83	82	80	80	74	86
23	81	60	80	79	78	76	76	75	75	74	[ZS]	79	76	78	79	79	80	81	81	80	79	79	79	79	74	86
24	75	73	74	73	70	69	69	69	68	68	68	69	72	74	75	75	75	75	74	73	72	71	70	70	72	75
25	69	69	69	69	71	71	69	70	69	69	70	72	74	75	77	79	79	81	79	80	79	81	81	79	74	81
26	78	78	77	77	78	77	77	81	78	79	[ZS]	81	79	81	83	83	83	82	85	85	86	86	88	88	81	88
27	87	84	83	82	82	79	75	77	78	80	78	81	81	82	82	86	89	80	87	85	89	90	87	83	83	90
28	84	75	76	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	77	77	79	80	82	86	89	80	80	80	80	82	81	80	84
29	77	71	74	76	70	73	75	73	75	70	64	[ZS]	77	82	86	83	80	81	81	81	80	82	82	82	76	86
30	78	80	79	78	82	77	79	79	80	80	[ZS]	82	85	88	89	90	90	88	88	88	89	88	88	87	84	90
31	86	50	88	88	87	87	89	87	87	85	85	87	90	91	90	92	93	90	92	95	93	93	92	98	90	98
AV	74	72	72	71	70	69	68	67	66	66	66	69	74	76	78	79	79	78	78	76	76	75	75	75	73	98
SD	7	8	8	7	7	8	9	10	11	10	9	9	9	8	7	7	7	6	6	8	8	8	8	9	9	9

SULFUR DIOXIDE (CC14)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

JAN, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK		
1	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[CA]	[CA]	6	6	6	6	6	6	6	6	6	6	6	6	6	
2	6	7	7	6	6	6	7	7	7	7	7	7	7	7	6	5	4	6	6	7	7	7	7	7	7	7	6	
3	7	8	8	8	8	8	8	8	8	8	8	8	[ZS]	6	7	7	8	8	8	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	7	8
4	8	9	9	9	9	9	9	9	9	9	9	9	9	9	6	7	7	8	8	8	9	9	9	9	9	9	8	9
5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	6	7	6	7	8	8	7	8	7	7	7	7	7	8
6	6	7	7	9	8	8	10	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	7	8
7	7	7	7	10	7	7	10	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	7	8
8	9	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
11	7	9	7	8	7	7	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	8
12	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
13	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
14	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
15	9	9	10	10	9	8	11	10	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
16	9	8	11	9	9	8	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
17	10	10	10	11	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
18	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
19	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
20	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
21	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
22	12	12	11	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
23	11	12	13	13	12	11	10	11	10	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
24	12	11	12	12	13	13	12	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
25	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
26	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
27	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
28	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
29	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
30	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
31	10	8	8	8	8	9	9	10	11	11	11	11	10	10	9	9	10	8	10	11	11	11	11	11	11	11	10	11
AV	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	15
SD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	3

SULFUR DIOXIDE (CC:14)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANNZA, UTAH  
SITE 4

FEB, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	11	11	11	11	12	11	11	11	11	11	11	11	11	11	11	10	10	11	11	11	11	11	11	11	11	11
2	11	11	11	12	13	14	13	13	13	13	11 [ZS]	11	13	13	12	12	13	13	13	13	13	13	12	11	11	12
3	11	12	11	13	11	12	11	11	11	11	11	11	11	13	13	12	13	13	13	13	13	13	13	12	11	14
4	13	13	13	13	13	13	13	13	13	13	13	13	13	11	11	11	11	11	11	11	11	11	12	12	12	13
5	11	11	11	11	11	11	12	11	11	11	11	11	11	9	8	8	8	8	10	11	9	8	9	11	10	12
6	10	10	10	9	11	11	11	10	11	11	11	10	9	8	8	8	8	8	8	8	8	8	8	8	9	11
7	9	9	9	10	9	8	10	9	9	9	[ZS]	8	8	8	8	8	8	8	8	8	8	8	8	8	9	10
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8	8	10
9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10
10	8	8	8	8	8	8	8	8	8	8	8	8	7 [ZS]	6	6	6	6	6	6	6	6	6	6	6	7	8
11	8	8	8	8	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	7	8
12	8	8	8	7	8	8	8	8	8	8	7	7	6	6	6	6	6	6	6	6	6	6	6	6	7	8
13	7	8	7	7	6	8	7	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	8
14	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
15	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
16	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
17	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
18	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
19	5	5	5	4	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
20	6	6	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
21	4	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
22	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
23	3	3	3	3	3	4	5	5	4	3	[ZS]	3	3	2	3	3	3	3	3	3	3	3	3	3	3	4
24	3	3	3	3	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
25	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
26	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
27	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
28	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2	1	1	1	2	3	3	3	3
AV	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	5	5	5	5	6	6	6	6	6	6	6
SD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

SULFUR DIOXIDE (CC:14)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

MAR, 1983

AERVIROMENT INC.

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	3	2	3	3	3	3	3	2	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	[CIM]	3	3
2	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	[CA]	0	0
15	0	0	0	0	0	0	0	0	0	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	0	0
16	0	0	0	0	0	0	0	0	0	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	[SA]	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	0	0
25	0	0	0	0	0	0	0	0	0	0	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	[ZS]	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
SD	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

SULFUR DIOXIDE (CC:14)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONARZA, UTAH  
SITE 4

APR, 1983

AEROENVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0 [PC]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0 [CA]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0 [SA]	0 [SA]	0 [SA]	0 [SA]	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0 [RF]	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0 [ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



SULFUR DIOXIDE (CC:14)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONHITA, UTAH  
 SITE 4

MAY, 1983

AEROSOL ENVIRONMENT INC.

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	[ZS]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	[PC]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SULFUR DIOXIDE (CC:1-1)  
 NICKELGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

JUN, 1983

AEROVIROINMENT INC.

\*\*\*\*\*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SULFUR DIOXIDE (CC:14)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4

JUL, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	0	0	0	0	0	0	0	0	0	0	{ZS}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	4	3	2	2	2	2	1	0	0	0	{CA}	0	2	2	2	3	2	4	3	4	4	4	4	4	4	4
5	4	4	5	5	5	6	5	4	4	4	{CA}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	{CA}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	5	5	5	5	3	2	1	1	0	0	{ZS}	0	0	0	1	3	3	3	3	4	5	3	5	5	1	5
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	{SA}	{SA}	2	{PF}	{PF}	{PF}	{PF}	2	2	2	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	{ZS}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	{ZS}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	4	5	5	5	3	3	3	3	1	{ZS}	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	1	1	1	1	1	1	1	1	1	0	{PC}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	2	1	1	1	2	2	2	2	2	1	0	1	2	0	0	2	1	0	0	0	0	0	0	0	0	0
24	2	2	1	2	1	2	2	2	2	2	1	2	1	2	1	2	2	1	1	1	2	2	2	2	2	2
25	1	2	0	2	1	1	2	2	2	1	{ZS}	1	2	1	1	2	2	2	2	2	2	1	2	2	2	2
26	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	3	2	2	2	2	3	3	3	3	3
27	3	3	2	3	3	2	2	2	2	2	{ZS}	3	3	2	3	3	2	2	3	1	4	3	2	2	2	2
28	3	2	3	3	2	2	3	3	1	1	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2
29	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2
30	1	3	3	3	2	2	2	3	1	2	2	1	2	3	3	2	1	2	1	2	1	1	1	1	1	1
31	4	3	4	3	3	3	3	1	1	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2
AV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SD	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

SULFUR DIOXIDE [CC:14]  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

AUG, 1983

AEROVIRONMENT INC.

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	3	2	2	4	2	3	3	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4
2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	1	1	1	2	1	2	1	1	2	2	2	2	2	2	3	2	3	3	3	4	3	3	3	2	4
4	3	5	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	2	3	2	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
8	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
9	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
10	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
11	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
12	4	5	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
13	5	5	6	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	6	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
15	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
16	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
17	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
18	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
19	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
20	6	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
21	7	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
22	9	9	9	9	8	9	9	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
23	15	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
24	9	10	9	10	9	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
25	10	9	10	10	9	10	9	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
26	8	9	9	9	10	9	10	10	8	9	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
27	10	11	10	11	11	11	11	11	10	11	10	8	10	9	9	9	9	9	9	9	9	9	9	9	9	9
28	11	11	11	11	11	11	11	11	11	9	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
29	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
30	12	13	14	14	14	13	14	14	13	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
31	17	18	17	18	19	17	17	16	15	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
AV	6	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SD	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

SULFUR DIOXIDE (CC14)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONANZA, UTAH  
SITE 4

SEP, 1983

AEROVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	12	14	12	13	13	13	13	13	13	13	13	13	13	13	14	14	13	14	13	14	13	12	12	13	13	14
2	13	13	13	13	13	14	14	13	12	13	14	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14
3	12	13	13	14	13	13	12	15	13	15	14	15	12	15	13	13	13	13	13	12	13	12	13	13	13	15
4	14	12	15	12	13	12	13	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	12	15
5	12	14	13	12	14	12	14	12	13	12	12	12	12	12	11	10	10	12	11	11	11	11	12	11	12	14
6	12	12	12	13	12	13	12	13	12	12	12	[ZS]	12	11	12	11	11	11	11	11	11	11	11	11	12	13
7	12	13	13	14	14	13	14	11	14	11	11	11	10	11	12	14	14	13	11	13	11	12	13	13	12	14
8	11	11	12	11	12	13	13	13	13	12	12	11	11	12	10	11	11	12	11	11	12	12	11	11	12	13
9	11	12	12	13	13	12	12	12	11	[ZS]	11	11	11	11	11	11	11	11	11	11	12	11	11	11	13	15
10	12	13	13	13	14	13	15	14	13	13	13	13	13	13	13	13	13	11	10	11	11	11	11	13	13	15
11	13	13	13	12	12	13	14	13	13	13	13	13	12	13	13	13	12	12	12	10	10	12	12	13	13	15
12	12	12	12	12	12	13	12	11	12	[ZS]	12	12	12	12	12	12	12	12	12	10	10	11	12	12	12	13
13	12	12	12	12	12	12	12	11	12	12	12	12	12	10	12	11	11	10	10	10	12	12	12	12	12	13
14	11	11	13	12	12	12	12	11	11	[ZS]	12	11	10	10	10	9	9	10	10	10	12	12	12	12	11	12
15	12	12	12	11	11	11	11	11	11	11	11	11	10	10	10	11	11	11	11	10	10	10	10	10	11	12
16	11	11	10	11	11	10	11	11	11	[PC]	9	9	9	9	9	10	8	11	10	10	9	10	10	10	10	11
17	11	10	8	8	8	10	11	11	11	10	9	9	10	9	9	8	9	11	10	8	9	10	8	9	11	11
18	8	8	8	9	8	9	9	9	8	7	7	7	8	8	8	8	8	9	8	8	9	9	7	8	9	11
19	8	9	8	11	13	15	15	15	15	[ZS]	10	8	8	8	8	8	8	8	8	10	9	9	10	10	10	15
20	11	13	13	13	13	13	13	14	13	13	11	10	10	10	7	6	7	6	7	7	7	7	7	8	10	14
21	8	9	10	10	11	10	11	11	10	10	[ZS]	10	10	8	7	8	7	8	9	9	10	9	9	9	11	11
22	9	9	9	9	7	9	9	9	9	8	8	8	8	9	8	8	7	7	7	7	7	7	7	7	8	9
23	7	7	7	7	7	7	6	5	6	[ZS]	6	6	6	4	6	6	6	6	6	6	6	6	6	6	9	
24	6	6	6	6	6	6	5	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	9	
25	7	7	8	8	9	9	9	9	8	8	8	8	6	8	7	8	8	8	7	7	7	7	7	7	7	8
26	7	6	7	7	7	7	7	6	8	7	7	8	7	8	7	6	7	7	7	7	7	7	7	7	7	8
27	8	8	7	8	6	7	6	7	9	[ZS]	8	8	8	7	6	8	8	8	8	8	8	8	8	7	7	8
28	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	8
29	7	7	7	7	6	7	7	7	7	[ZS]	6	7	7	5	7	7	5	5	5	5	5	5	5	5	5	6
30	6	6	6	6	6	7	7	6	7	7	7	7	7	6	6	6	4	4	6	6	5	5	6	6	6	7
AV	10	10	10	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	9	9	10	10	10	10	10	15
SD	2	3	3	3	3	3	3	3	3	2	3	3	2	3	3	3	3	3	2	2	2	2	2	3	3	3



SULFUR DIOXIDE (CC14)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BONHAIZA, UTAH  
SITE 4

OCT, 1983

AEROENVIRONMENT INC.

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\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	7	6	7	7	7	7	5	7	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	5	7	
2	5	4	5	4	6	5	5	6	6	5	6	6	5	5	4	4	4	4	4	4	4	4	4	4	4	5	6
3	6	6	5	5	6	7	6	6	[CA]	[CA]	6	4	4	3	3	4	4	5	6	6	6	6	6	6	8	8	
4	9	9	9	9	9	9	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	9	
5	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	
6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	10	
7	7	6	7	7	7	7	8	7	7	7	[ZS]	7	5	6	4	4	5	4	4	4	4	4	4	4	4	6	
8	4	4	4	4	5	5	6	7	5	6	5	4	5	4	4	5	5	4	5	5	4	5	5	5	6	8	
9	7	5	5	6	6	7	7	7	7	7	6	4	4	6	4	4	4	2	3	3	3	3	3	3	4	7	
10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	
11	7	6	7	7	8	8	8	8	[ZS]	[ZS]	7	7	4	4	5	4	4	4	4	5	6	7	6	6	7	7	
12	6	6	7	7	7	7	7	8	7	6	6	5	5	5	6	6	5	7	7	7	7	7	7	7	7	8	
13	7	6	7	7	7	7	8	7	[ZS]	[ZS]	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	
14	7	7	7	7	8	7	8	9	8	[PC]	8	8	6	6	8	7	6	8	8	8	8	8	8	8	8	9	
15	8	10	9	10	10	10	10	10	10	10	9	8	6	6	8	8	8	6	7	8	8	8	8	8	8	10	
16	10	10	10	10	10	10	10	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	
17	11	9	10	11	11	11	11	11	11	[ZS]	10	9	8	9	8	8	8	8	8	8	8	8	8	8	8	10	
18	11	10	9	9	11	10	11	11	11	9	9	10	9	8	10	10	10	10	9	8	11	11	11	11	11	11	
19	11	11	11	12	13	14	14	14	14	13	11	13	13	11	11	10	11	11	10	10	10	11	12	12	12	14	
20	12	13	14	13	14	14	15	15	14	12	11	11	10	9	10	10	10	11	11	10	11	11	11	11	11	15	
21	11	11	12	13	12	13	13	13	14	[ZS]	11	10	11	9	9	10	11	10	11	11	11	10	11	11	11	14	
22	12	11	12	12	12	12	12	12	12	11	9	9	9	9	9	9	9	9	9	11	9	9	10	10	10	12	
23	11	10	11	11	11	11	11	11	11	11	10	10	10	9	10	10	9	9	11	10	10	10	11	12	12	12	
24	9	8	9	9	10	10	10	10	9	[ZS]	11	11	11	12	9	9	9	9	9	9	10	11	12	12	10	11	
25	12	12	12	11	12	12	12	12	12	11	10	10	9	9	9	9	9	9	8	9	9	9	9	9	9	10	
26	12	13	13	14	14	14	14	14	14	14	13	12	14	12	12	9	10	10	10	12	12	12	12	12	12	14	
27	12	12	12	14	13	15	15	15	14	12	12	[ZS]	12	11	11	11	11	9	10	10	10	10	10	10	10	15	
28	12	12	12	12	12	13	12	12	[PC]	12	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	
29	10	10	10	12	12	13	13	13	11	12	11	12	11	10	10	9	10	11	12	9	9	9	9	9	9	14	
30	12	12	11	10	12	12	12	12	12	11	12	10	10	10	10	10	10	10	10	12	10	11	11	11	11	12	
31	11	10	11	10	11	11	11	11	11	11	10	9	10	10	10	9	9	9	9	8	9	10	10	11	10	11	
AV	9	9	9	9	9	10	10	10	10	9	9	8	8	8	8	8	7	7	8	8	8	8	8	8	8	15	
SD	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	

SULFUR DIOXIDE (CC:14)  
 MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH  
 SITE 4

NOV, 1983

AEROVIRONMENT INC.

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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CLOCK HOUR (LOCAL STANDARD TIME)

D/Y	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK
1	10	12	12	12	12	12	12	12	12	13	13	10	(CA)	10	11	9	10	9	9	9	10	9	9	10	11	13
2	10	11	10	11	10	10	12	12	11	10	10	(ZS)	10	9	9	7	8	8	9	8	10	10	10	10	10	12
3	10	10	10	11	12	11	11	12	11	10	10	9	9	9	6	7	7	7	7	7	8	8	8	8	8	12
4	9	9	8	9	10	9	9	9	9	9	9	8	7	7	7	7	6	6	6	6	6	6	6	6	6	10
5	9	10	9	9	10	9	10	10	9	9	9	8	8	6	6	6	6	6	6	6	6	6	6	6	6	10
6	9	9	9	9	10	10	9	9	9	9	9	7	(ZS)	6	6	6	6	6	6	6	6	6	6	6	6	10
7	8	7	8	6	9	9	9	9	9	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10
8	6	6	7	7	9	8	9	9	9	9	9	8	(ZS)	8	8	8	8	8	8	8	8	8	8	8	8	11
9	9	9	10	10	9	10	11	11	11	9	8	8	8	8	7	7	7	7	7	7	8	8	8	8	8	11
10	9	9	8	8	9	9	9	11	8	9	8	8	8	7	6	7	7	7	7	8	8	8	8	8	8	11
11	9	8	9	9	9	10	9	10	10	9	8	(PC)	8	9	8	8	8	8	8	8	9	10	10	10	10	10
12	11	10	9	8	8	8	8	8	8	8	9	8	8	8	8	8	6	5	5	5	6	6	6	6	6	11
13	7	8	8	8	8	8	8	8	8	8	8	8	8	5	5	6	6	5	5	5	8	8	7	6	6	9
14	8	8	9	9	9	10	10	10	9	8	8	8	7	7	7	7	7	7	7	10	10	10	10	10	10	10
15	10	10	10	10	10	10	10	10	10	11	10	(ZS)	10	8	7	7	7	7	7	9	9	10	10	10	10	11
16	10	10	10	10	10	10	10	10	10	10	10	8	7	8	7	7	7	8	8	7	9	10	11	10	9	11
17	11	10	10	10	9	10	10	10	9	10	(ZS)	10	10	10	8	7	8	10	10	10	7	9	9	7	9	11
18	8	7	7	7	7	7	7	7	7	9	9	7	7	7	8	8	9	9	9	9	9	9	9	9	9	9
19	9	9	9	9	9	9	9	9	9	9	9	8	8	7	7	7	8	7	8	9	9	9	9	9	9	9
20	10	9	9	10	10	10	11	11	9	9	9	7	8	8	8	7	7	9	9	9	9	9	9	9	9	9
21	9	10	9	9	9	9	9	8	7	7	(ZS)	10	9	10	9	8	9	9	9	10	11	12	11	12	11	12
22	12	11	11	12	12	12	12	12	12	12	12	12	11	9	10	7	9	11	11	11	13	13	13	12	11	13
23	13	13	14	13	14	14	14	14	14	14	13	14	(ZS)	14	14	11	11	12	14	13	14	14	14	13	14	14
24	14	14	14	14	14	14	14	14	14	14	14	14	13	12	12	11	11	12	12	13	14	12	14	13	14	14
25	14	13	13	13	13	14	14	14	14	14	14	(ZS)	11	11	10	11	11	11	11	11	11	11	11	11	11	14
26	11	11	12	12	12	14	14	14	14	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	15
27	13	13	13	13	13	14	13	13	13	13	13	13	12	11	11	12	12	12	13	13	13	15	13	13	13	15
28	13	13	13	13	13	13	13	13	13	13	13	(ZS)	13	11	13	10	12	12	13	13	13	13	13	13	13	13
29	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	10	13	13	13	13	13	13	13	13	14
30	13	13	13	13	13	13	13	13	13	13	13	11	12	10	11	11	11	12	13	13	13	13	13	13	13	13
AV	10	10	10	10	10	11	11	11	11	10	10	10	9	9	9	9	9	9	9	9	10	10	10	10	10	15
SD	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	2	3

SULFUR DIOXIDE (CC114)  
MICROGRAMS/CUBIC METER

WHITE RIVER SHALE PROJECT, #139  
BOHANZA, UTAH  
SITE 4

DEC, 1983

AEROVIRONMENT INC.

\*\*\*\*\*  
\* FINAL DATA \*  
\* AS OF 16/APR/84 \*  
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CLOCK HOUR [LOCAL STANDARD TIME]

DY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	PEAK	
1	13	13	13	13	13	13	13	13	13	13	13	13	12	13	11	13	11	12	12	13	12	12	12	11	13	13	
2	12	13	12	13	13	12	12	12	12	12	11	12	10	12	12	12	12	12	11	12	11	11	11	11	11	12	13
3	11	12	11	11	12	11	12	12	12	12	12	10	[ZS]	10	10	9	10	11	12	12	12	12	12	12	12	11	12
4	12	12	12	15	14	14	14	14	14	12	12	12	12	11	12	11	12	12	12	12	13	11	12	11	12	15	
5	11	11	12	12	11	11	11	11	11	11	11	11	[ZS]	11	11	11	11	11	11	13	11	12	13	14	11	14	
6	12	14	13	13	13	13	13	13	12	12	11	11	11	11	10	10	11	11	14	15	13	13	13	13	13	12	15
7	14	13	13	13	13	13	13	15	13	12	12	12	[ZS]	10	10	7	10	10	10	10	10	10	10	10	10	15	
8	10	10	10	10	11	10	10	11	11	10	12	9	9	9	9	9	9	8	9	9	9	9	9	9	9	10	
9	9	9	9	9	9	9	9	10	10	9	[ZS]	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	
10	9	9	9	9	9	9	9	10	11	11	11	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	
11	8	9	9	9	9	9	9	10	10	10	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	
12	8	7	7	7	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	9	8	10	
13	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	
14	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	10	
15	7	7	6	6	6	6	5	5	6	7	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	
16	6	7	6	6	7	9	9	9	8	7	7	8	[ZS]	5	5	5	5	5	5	5	5	5	5	5	5	7	
17	7	7	9	9	9	9	9	10	7	7	7	7	4	4	4	4	4	4	4	4	4	4	4	4	4	10	
18	6	7	7	6	7	7	7	7	9	9	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	10	
19	7	8	8	9	9	9	9	9	7	8	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	9	
20	8	7	6	6	7	7	6	7	8	9	6	8	8	5	8	8	8	8	8	8	8	8	8	8	8	9	
21	8	8	8	8	7	7	7	7	7	7	7	7	7	6	5	5	5	5	5	5	5	5	5	5	5	9	
22	7	8	8	7	7	7	7	7	9	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	9	
23	7	6	6	6	5	5	5	5	5	6	7	8	[PC]	7	7	7	7	7	7	7	7	7	7	7	7	9	
24	10	11	7	6	7	7	6	6	7	6	8	8	7	6	4	4	4	4	4	4	4	4	4	4	4	9	
25	7	7	6	6	7	7	6	7	6	5	5	5	5	6	8	6	6	6	6	6	6	6	6	6	6	11	
26	5	3	4	4	4	4	5	4	4	5	[ZS]	4	2	2	2	2	2	2	2	2	2	2	2	2	2	5	
27	4	3	1	1	1	1	1	2	1	2	2	2	0	1	0	0	0	0	1	1	0	1	1	1	1	4	
28	3	5	6	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	[RF]	9	9	6	4	4	4	4	5	6	6	6	6	6	9	
29	6	6	5	6	6	6	6	6	6	6	6	5	5	[ZS]	5	4	3	3	4	5	5	5	5	5	5	6	
30	5	4	4	5	5	5	5	4	5	5	[ZS]	5	5	5	4	2	2	2	2	2	2	2	2	2	2	5	
31	4	3	3	4	5	5	5	4	3	4	3	3	2	3	2	2	2	2	2	2	2	2	2	2	2	5	
AV	8	8	8	8	9	9	9	9	8	8	8	8	7	7	7	6	7	7	7	7	7	7	7	7	7	8	
SD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	15	

**TOTAL SUSPENDED PARTICULATES**  
**SITES A4 & A10**





PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BORANZA, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
T	TSP	TSP	TSP	TSP
DD	UGM	UGM	UGM	UGM
	/M3	/M3	/M3	/M3
JAN/83	01	8.4	7.8	8.9
	02	9.6	[ ]	8.9
	03	14.1	[ ]	13.6
	04	18.6	[ ]	15.2
	05	21.1	[ ]	20.6
	06	17.1	[ ]	19.7
	07	13.2	12.8	13.2
	08	7.1	[ ]	11.1
	09	6.7	[ ]	7.0
	10	5.8	[ ]	6.5
	11	12.9	[ ]	13.2
	12	11.3	[ ]	10.8
	13	13.7	13.3	21.0
	14	9.8	[ ]	16.7
	15	8.1	[ ]	13.9
	16	10.0	[ ]	12.5
	17	12.3	[ ]	16.1
	18	8.6	[ ]	14.4
	19	9.8	6.5	11.2
	20	6.8	[ ]	10.5
	21	6.7	[ ]	8.1
	22	3.5	[ ]	4.5
	23	[PF]	[ ]	4.6
	24	[PF]	[ ]	[MT]
	25	[IH]	[IH]	4.4
	26	[IN]	[ ]	4.0
	27	3.3	[ ]	2.7
	28	4.9	[ ]	8.3
	29	[OR]	[ ]	8.3
	30	[OR]	[ ]	4.4
	31	[OR]	[OR]	6.5
	AV	10.1	10.1	10.9
	SD	4.6	3.5	5.3
	MX	21.1	13.3	21.0
	MH	3.3	6.5	2.7

PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BORAHZA, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
T	TSP	TSP	TSP	TSP
DD	UGM /N3	UGM /N3	UGM /N3	UGM /N3
FEB/83	01	6.5 [ ]	8.7	
	02	11.6 [ ]	9.0	
	03	13.5 [ ]	17.7	
	04	12.8 [ ]	12.5	
	05	10.9 [ ]	8.9	
	06	6.1	6.3	9.3
	07	5.6 [ ]	12.1	
	08	8.2 [ ]	11.0	
	09	5.6 [ ]	7.6	
	10	PF [ ]	4.6	
	11	3.1 [ ]	4.4	
	12	4.4	5.3	5.9
	13	8.2 [ ]	8.5	
	14	4.6 [ ]	7.5	
	15	8.2 [ ]	7.4	
	16	8.4 [ ]	8.8	
	17	7.8 [ ]	6.0	
	18	14.3	14.9	12.4
	19	5.8 [ ]	6.5	
	20	3.8 [ ]	3.8	
	21	6.9 [ ]	6.8	
	22	[ ] [ ]	[ ]	
	23	6.8 [ ]	7.6	
	24	11.1	11.8	12.0
	25	9.5 [ ]	11.5	
	26	4.4 [ ]	4.3	
	27	2.2 [ ]	1.5	
	28	2.1 [ ]	2.0	
	AV	7.4	9.6	8.1
	SD	3.4	4.6	3.6
	MX	14.3	14.9	17.7
	MH	2.1	5.3	1.5

PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BOKANZA, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
=>		TSP	TSP	TSP
DD	UGM	UGM	UGM	UGM
	/N3	/N3	/N3	/N3
MAR/83	01	5.8	[ ]	5.2
	02	8.2	8.9	11.2
	03	5.9	[ ]	6.1
	04	3.5	[ ]	6.1
	05	[ ]	[ ]	5.5
	06	[ ]	[ ]	[ ]
	07	[ ]	[ ]	[ ]
	08	3.3	3.5	4.8
	09	3.6	[ ]	6.3
	10	11.0	[ ]	9.5
	11	17.5	[ ]	13.1
	12	5.6	[ ]	6.6
	13	7.5	[ ]	8.3
	14	4.0	4.0	4.5
	15	5.0	[ ]	3.6
	16	3.4	[ ]	4.2
	17	3.9	[ ]	2.9
	18	3.0	[ ]	2.0
	19	6.2	[ ]	5.2
	20	4.8	4.9	5.2
	21	6.9	[ ]	5.7
	22	5.3	[ ]	5.8
	23	1.9	[ ]	2.3
	24	2.2	[ ]	2.3
	25	3.6	[ ]	2.6
	26	1.6	2.0	2.1
	27	2.2	[ ]	3.4
	28	5.0	[ ]	6.5
	29	9.5	[ ]	8.4
	30	7.0	[ ]	8.9
	31	8.3	[ ]	7.6
	AV	5.6	4.7	5.7
	SD	3.3	2.6	2.7
	MX	17.5	8.9	13.1
	MN	1.6	2.0	2.0

PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BORGANZA, UTAH

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
T	TSP	TSP	TSP	TSP
DD	UGM	UGM	UGM	UGM
	/M3	/M3	/M3	/M3
APR/83				
01	[IN]	[IH]	[IH]	4.7
02	4.9	[ ]	[ ]	4.5
03	5.2	[ ]	[ ]	5.8
04	18.7	[ ]	[ ]	16.0
05	10.8	[ ]	[IH]	
06	7.5	[ ]	[ ]	10.0
07	9.3	10.2	8.9	
08	10.8	[ ]	[ ]	11.6
09	11.5	[ ]	[ ]	12.3
10	16.9	[ ]	[ ]	19.1
11	7.8	[ ]	[ ]	8.8
12	6.6	[ ]	[ ]	6.3
13	6.1	6.4	7.1	
14	8.3	[ ]	[ ]	10.5
15	11.2	[ ]	[ ]	11.5
16	11.2	[ ]	[IH]	
17	15.4	[ ]	[ ]	14.4
18	30.6	[ ]	[ ]	23.1
19	7.9	8.4	9.1	
20	16.3	[ ]	[ ]	13.3
21	4.9	[ ]	[ ]	7.3
22	6.2	[ ]	[ ]	7.2
23	11.2	[ ]	[ ]	6.1
24	35.6	[ ]	[ ]	34.5
25	69.4	60.3	67.0	
26	10.7	[ ]	[ ]	8.7
27	17.1	[ ]	[IH]	
28	11.9	[ ]	[ ]	9.9
29	6.1	[ ]	[ ]	9.8
30	1.9	[ ]	[ ]	4.3
6V	13.5	21.3	13.0	
8D	13.0	26.0	12.6	
MX	69.4	60.3	67.0	
NN	1.9	6.4	4.3	

PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BOKANZA, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
T	TSP	TSP	TSP	TSP
DD	UCN	UCN	UGM	UGM
	/N3	/N3	/N3	/N3
MAY/83	01	2.9	4.2	2.9
	02	5.3	[ ]	[GR]
	03	6.1	[ ]	9.9
	04	13.9	[ ]	8.4
	03	21.2	[ ]	17.9
	06	13.4	[ ]	19.9
	07	7.8	9.1	[IM]
	08	16.4	[ ]	18.6
	09	36.2	[ ]	32.7
	10	32.5	[ ]	31.4
	11	16.5	[ ]	15.8
	12	5.9	[ ]	6.2
	13	8.8	7.9	10.3
	14	7.9	[ ]	8.8
	15	9.1	[ ]	10.1
	16	3.4	[ ]	3.4
	17	5.6	[ ]	6.2
	18	6.4	[ ]	12.1
	19	3.9	[ ]	4.9
	20	9.4	8.8	8.8
	21	20.4	[ ]	30.0
	22	15.3	[ ]	14.4
	23	24.8	[ ]	19.7
	24	16.8	[ ]	15.6
	25	26.5	26.6	27.0
	26	[IM]	[ ]	23.5
	27	24.5	[ ]	26.0
	28	20.1	[ ]	23.7
	29	17.3	[ ]	21.4
	30	22.8	[ ]	[IM]
	31	13.9	14.0	18.3
	AV	14.5	11.8	16.0
	SD	8.8	7.9	8.7
	MX	36.2	26.6	32.7
	MN	2.9	4.2	2.9



PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BORGWEN, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
T	TSP	TSP	TSP	TSP
DD	UGM	UGM	UGM	UGM
	/N3	/N3	/N3	/N3
01	24.3	[	]	25.2
02	13.5	[	]	17.2
03	19.0	[	]	19.9
04	14.8	[	]	14.6
05	7.4	[	]	9.2
06	16.0	[	]	16.4
07	10.6	[	]	10.0
08	17.4	[	]	17.6
09	14.4	[	]	20.5
10	16.9	[	]	17.4
11	38.0	[	]	49.8
12	10.5	[	]	11.9
13	12.9	[	]	13.4
14	9.8	[	]	11.3
15	16.6	[	]	17.5
16	20.0	[	]	20.6
17	21.9	[	]	22.5
18	22.3	[	]	23.3
19	34.5	[	]	37.7
20	27.6	[	]	26.8
21	25.8	[	]	27.6
22	23.0	[	]	19.6
23	38.7	[	]	25.8
24	[IN]	[IN]	[IN]	16.3
25	12.5	[	]	16.0
26	12.8	[	]	16.6
27	13.1	[	]	14.8
28	22.9	[	]	23.4
29	28.6	[	]	27.9
30	19.7	[	]	23.9
AV	19.5	[	]	18.5
SD	8.2	[	]	6.3
MX	38.7	[	]	23.9
MIN	7.4	[	]	10.5

JUN/83

PROJECT # 139 WHITE RIVER SHIM E PROJECT, #139  
 BORAZON, UTAH

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES => 4a	4b	10
T TSP	TSP	TSP
DD UGM	UGM	UGM
'N3	'N3	'N3
JUL/83		
01	24.2 [ ]	27.2
02	29.4 [ ]	28.6
03	17.7 [ ]	40.0
04	13.0 [ ]	20.0
05	21.4 [ ]	21.9
06	32.3 35.5	31.7
07	24.8 [ ]	47.2
08	18.7 [ ]	28.4
09	19.2 [ ]	[IM]
10	26.2 [ ]	24.7
11	19.7 [ ]	22.7
12	18.5 18.4	19.0
13	18.3 [ ]	11.7
14	33.1 [ ]	30.3
15	58.6 [ ]	47.6
16	[IM] [ ]	[IM]
17	[IM] [ ]	[IM]
18	[IM] [IM]	[IM]
19	22.7 [ ]	23.4
20	15.2 [ ]	26.2
21	15.0 [ ]	18.0
22	10.5 [ ]	11.2
23	7.4 [ ]	[IM]
24	12.0 12.5	12.4
25	12.1 [ ]	[OR]
26	12.9 [ ]	12.1
27	14.6 [ ]	11.7
28	11.2 [ ]	10.4
29	20.7 [ ]	19.1
30	17.1 16.6	16.3
31	14.6 [ ]	12.2
AV	20.0 20.8	23.0
SD	9.9 10.1	10.6
MX	58.6 35.5	47.6
MN	7.4 12.5	10.4

PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BORRHZH, UTAH

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES => 4a 4b 10		TSP		UGM		UGM	
T	TSP	TSP	TSP	UGM	UGM	UGM	UGM
		/M3	/M3	/M3	/M3	/M3	/M3
AUG/83	01	14.9	[ ]	[ ]	[ ]	[ ]	[ ]
	02	22.1	[ ]	[ ]	[ ]	[ ]	[ ]
	03	17.4	[ ]	[ ]	[ ]	[ ]	[ ]
	04	12.7	[ ]	[ ]	[ ]	[ ]	[ ]
	05	22.3	[ ]	[ ]	[ ]	[ ]	[ ]
	06	20.9	[ ]	[ ]	[ ]	[ ]	[ ]
	07	16.3	[ ]	[ ]	[ ]	[ ]	[ ]
	08	25.9	[ ]	[ ]	[ ]	[ ]	[ ]
	09	23.6	[ ]	[ ]	[ ]	[ ]	[ ]
	10	40.5	[ ]	[ ]	[ ]	[ ]	[ ]
	11	3.5	[ ]	[ ]	[ ]	[ ]	[ ]
	12	2.1	[ ]	[ ]	[ ]	[ ]	[ ]
	13	9.3	[ ]	[ ]	[ ]	[ ]	[ ]
	14	14.0	[ ]	[ ]	[ ]	[ ]	[ ]
	15	17.8	[ ]	[ ]	[ ]	[ ]	[ ]
	16	11.6	[ ]	[ ]	[ ]	[ ]	[ ]
	17	18.9	[ ]	[ ]	[ ]	[ ]	[ ]
	18	19.2	[ ]	[ ]	[ ]	[ ]	[ ]
	19	14.3	[ ]	[ ]	[ ]	[ ]	[ ]
	20	12.5	[ ]	[ ]	[ ]	[ ]	[ ]
	21	14.1	[ ]	[ ]	[ ]	[ ]	[ ]
	22	11.4	[ ]	[ ]	[ ]	[ ]	[ ]
	23	22.8	[ ]	[ ]	[ ]	[ ]	[ ]
	24	14.7	[ ]	[ ]	[ ]	[ ]	[ ]
	25	18.5	[ ]	[ ]	[ ]	[ ]	[ ]
	26	19.3	[ ]	[ ]	[ ]	[ ]	[ ]
	27	19.6	[ ]	[ ]	[ ]	[ ]	[ ]
	28	18.8	[ ]	[ ]	[ ]	[ ]	[ ]
	29	15.6	[ ]	[ ]	[ ]	[ ]	[ ]
	30	8.9	[ ]	[ ]	[ ]	[ ]	[ ]
	31	12.2	[ ]	[ ]	[ ]	[ ]	[ ]
	AV	16.6	[ ]	[ ]	[ ]	[ ]	[ ]
	SD	7.0	[ ]	[ ]	[ ]	[ ]	[ ]
	MX	40.5	[ ]	[ ]	[ ]	[ ]	[ ]
	MN	2.1	[ ]	[ ]	[ ]	[ ]	[ ]

PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BORANZA, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4L		10	
T	TSP	TSP	UGM	TSP	UGM
DD	UGM	UGM	UGM	UGM	UGM
	/M3	/M3	/M3	/M3	/M3
SEP/83					
01	25.6	[ ]	23.9		
02	20.4	[ ]	24.4		
03	15.9	[ ]	19.1		
04	7.9	8.1	10.1		
05	11.5	[ ]	12.6		
06	[ ]	[ ]	[ ]		
07	22.4	[ ]	16.4		
08	[ ]	[ ]	[ ]		
09	[ ]	[ ]	[ ]		
10	25.2	24.5	19.5		
11	[ ]	[ ]	[ ]		
12	[ ]	[ ]	[ ]		
13	21.5	[ ]	23.9		
14	[ ]	[ ]	[ ]		
15	[ ]	[ ]	[ ]		
16	25.0	21.4	19.6		
17	[ ]	[ ]	[ ]		
18	[ ]	[ ]	[ ]		
19	71.9	[ ]	74.7		
20	[ ]	[ ]	[ ]		
21	[ ]	[ ]	[ ]		
22	21.6	22.0	27.8		
23	[ ]	[ ]	[ ]		
24	[ ]	[ ]	[ ]		
25	10.7	[ ]	13.3		
26	[ ]	[ ]	[ ]		
27	[ ]	[ ]	[ ]		
28	9.7	10.1	16.2		
29	[ ]	[ ]	[ ]		
30	[ ]	[ ]	[ ]		
AV	22.3	17.2	23.2		
SD	16.2	7.5	16.3		
MX	71.9	24.5	74.7		
NH	7.9	8.1	10.1		

PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BONANZA, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
 \*  
 \*\*\*\*\*

SITES  
 ==> 4a 4b 10  
 T TSP TSP TSP

DO UCM UCM UCM  
 /M3 /M3 /M3

OCT/83

01	5.7	[ ]	4.6
02	[ ]	[ ]	[ ]
03	[ ]	[ ]	[ ]
04	8.8	8.9	10.4
05	[ ]	[ ]	[ ]
06	[ ]	[ ]	[ ]
07	[IM]	[ ]	7.4
08	[ ]	[ ]	[ ]
09	[ ]	[ ]	[ ]
10	6.8	7.8	7.6
11	[ ]	[ ]	[ ]
12	[ ]	[ ]	[ ]
13	14.3	[ ]	17.2
14	[ ]	[ ]	[ ]
15	[ ]	[ ]	[ ]
16	5.8	5.5	6.6
17	[ ]	[ ]	[ ]
18	[ ]	[ ]	[ ]
19	10.6	[ ]	11.7
20	[ ]	[ ]	[ ]
21	[ ]	[ ]	[ ]
22	29.7	29.6	52.8
23	[ ]	[ ]	[ ]
24	[ ]	[ ]	[ ]
25	12.5	[ ]	14.6
26	[ ]	[ ]	[ ]
27	[ ]	[ ]	[ ]
28	[IM]	19.2	30.8
29	[ ]	[ ]	[ ]
30	[ ]	[ ]	[ ]
31	23.9	[ ]	20.5
AV	13.1	14.2	16.7
SD	8.4	10.1	14.2
MX	29.7	29.6	52.8
MIN	5.7	5.5	4.6



PROJECT # 139 WHITE RIVER SHALE PROJECT, #139  
 BOHARZA, UTAH

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 \*  
 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
T	TSP	TSP	TSP	TSP
DD	UGM	UGM	UGM	UGM
	/N3	/N3	/N3	/N3
NOV/83				
01	[ ]	[ ]	[ ]	[ ]
02	[ ]	[ ]	[ ]	[ ]
03	8.1	7.9	8.6	
04	[ ]	[ ]	[ ]	[ ]
05	[ ]	[ ]	[ ]	[ ]
06	12.7	[ ]	11.9	
07	[ ]	[ ]	[ ]	[ ]
08	[ ]	[ ]	[ ]	[ ]
09	3.5	3.3	5.2	
10	[ ]	[ ]	[ ]	[ ]
11	[ ]	[ ]	[ ]	[ ]
12	7.8	[ ]	9.3	
13	[ ]	[ ]	[ ]	[ ]
14	[ ]	[ ]	[ ]	[ ]
15	4.0	4.5	5.0	
16	[ ]	[ ]	[ ]	[ ]
17	[ ]	[ ]	[ ]	[ ]
18	2.3	[ ]	.1	
19	[ ]	[ ]	[ ]	[ ]
20	[ ]	[ ]	[ ]	[ ]
21	2.0	1.9	.5	
22	[ ]	[ ]	[ ]	[ ]
23	[ ]	[ ]	[ ]	[ ]
24	7.7	[ ]	12.2	
25	[ ]	[ ]	[ ]	[ ]
26	[ ]	[ ]	[ ]	[ ]
27	2.4	2.8	3.9	
28	[ ]	[ ]	[ ]	[ ]
29	[ ]	[ ]	[ ]	[ ]
30	8.6	[ ]	11.6	
AV	5.9	4.1	6.8	
SD	3.6	2.3	4.6	
MX	12.7	7.9	12.2	
MIN	2.0	1.9	.1	

PROJECT # 139 WHITE RIVER SIMILE PROJECT, #139  
 BORANZH, UTHH

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 \* FINAL DATA \*  
 \* AS OF 16/APR/84 \*  
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SITES		4a	4b	10
T	TSP	TSP	TSP	TSP
DD	UGM	UGM	UGM	UGM
	/M3	/M3	/M3	/M3
DEC/83	01	[ ]	[ ]	[ ]
	02	[ ]	[ ]	[ ]
	03	[IN]	6.6	5.0
	04	[ ]	[ ]	[ ]
	05	[ ]	[ ]	[ ]
	06	4.4	[ ]	5.2
	07	[ ]	[ ]	[ ]
	08	[ ]	[ ]	[ ]
	09	7.1	8.3	10.7
	10	[ ]	[ ]	[ ]
	11	[ ]	[ ]	[ ]
	12	5.9	[ ]	8.3
	13	[ ]	[ ]	[ ]
	14	[ ]	[ ]	[ ]
	15	5.7	5.9	7.2
	16	[ ]	[ ]	[ ]
	17	[ ]	[ ]	[ ]
	18	9.3	[ ]	8.1
	19	[ ]	[ ]	[ ]
	20	[ ]	[ ]	[ ]
	21	9.3	10.1	7.8
	22	[ ]	[ ]	[ ]
	23	[ ]	[ ]	[ ]
	24	5.8	[ ]	[IN]
	25	[ ]	[ ]	[ ]
	26	[ ]	[ ]	[ ]
	27	7.1	7.2	[IN]
	28	[ ]	[ ]	[ ]
	29	[ ]	[ ]	[ ]
	30	9.3	[ ]	[IN]
	31	[ ]	[ ]	[ ]
	AV	7.1	7.6	7.5
	SD	1.8	1.6	2.0
	MX	9.3	10.1	10.7
	MH	4.4	5.9	5.0

Form 1279-3  
(June 1984)

BORROWER

TN 859 .082 W425 198  
All quality data, pr  
oil shale lease tps

DATE LOANED	BORROWER

USDI - BLM

