

# Interoffice Memorandum

PLAINTIFF'S  
EXHIBIT

CEL-123

(5/74)

|                          |                |
|--------------------------|----------------|
| TO (Name and Location)   | DATE           |
| M. R. Stenzel - Dallas   | March 12, 1984 |
| FROM (Name and Location) | REFERENCE NO.  |
| C. W. Whaley - BCP       | CWW-450-84     |

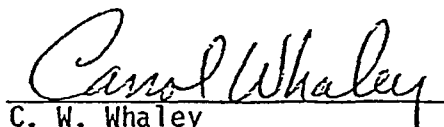
cc: J. N. Gann  
A. B. Savage  
B. A. Melaas - Dallas  
G. A. Vos - Dallas

SUBJECT: Evaluation of Bay City Plant Industrial Hygiene Monitoring Needs for 1984

You pointed out in the Bay City Plant industrial hygiene audit that the method in which we derived the number of samples to be collected in 1983 was inappropriate. As you know our plan was based on available manpower. You also stated that until company/corporate sampling strategy guidelines are established, Bay City Plant should continue to use my approach established several years ago for determining monitoring needs.

Attached is my evaluation of 1984 industrial hygiene monitoring needs for the Bay City Plant along with supporting information. If we pursue this program, validation of analytical methods for acetic acid and n-butanol will be necessary. In my view this data is needed to establish "baseline" exposure information for the key products and raw materials at the Bay City Plant. I would appreciate your comments regarding the proposed sampling needs.

As you know, B. A. Melaas is currently trying to clarify the Company's strategy for determining the number of samples to be taken. It is our understanding that he plans to have this issue resolved by April 1, 1984.

  
C. W. Whaley

CWW/b1

005852

Evaluation of Bay City Plant Industrial Hygiene

Monitoring Needs For 1984

005853

Carbon Monoxide Samples

| <u>Job Classification</u> | <u>Exposure Zone</u> |          |           |           |
|---------------------------|----------------------|----------|-----------|-----------|
|                           | <u>1</u>             | <u>5</u> | <u>20</u> | <u>32</u> |
| Warehouse/Stockroom       | 3                    |          |           |           |
| A-Operator                |                      | 3        | 3         | 3         |
| B-Operator                |                      | 3        | 3         | 3         |
| Analyzer Mechanic A/B     |                      | 3        | 3         | 3         |
| Maintenance (Any Craft)   |                      | 3        | 3         | 3         |

005854

# Acetaldehyde Samples

| <u>Job Classification</u> | <u>Exposure Zone</u> |          |          |           |           |           |
|---------------------------|----------------------|----------|----------|-----------|-----------|-----------|
|                           | <u>36</u>            | <u>2</u> | <u>6</u> | <u>23</u> | <u>25</u> | <u>29</u> |
| A Operator                |                      | 4/3*     |          | 5/10*     |           |           |
| B Operator                | 5/3*                 |          |          |           |           |           |
| Analyzer Mechanic A/B     |                      | 4        |          |           |           |           |
| Maintenance (All Crafts)  |                      | 7        |          |           |           |           |
| A Analyst - Shift         |                      |          | 5/2*     |           |           |           |
| B Analyst - Shift         |                      |          | 5/2*     |           |           |           |
| A Analyst - Day           |                      |          | 5/2*     |           |           |           |
| A/B Personnel             |                      |          |          |           | 5         |           |
| Clerk/Technical           |                      |          |          |           |           | 4         |

\*8 Hour TWA/STEL

NOTE: Obtain additional samples on operations and maintenance personnel during turnaround (~7 samples).

005855

# Vinyl Acetate Samples

| <u>Job Classification</u> | <u>Exposure Zone</u> |          |           |           |           |           |
|---------------------------|----------------------|----------|-----------|-----------|-----------|-----------|
|                           | <u>3</u>             | <u>6</u> | <u>23</u> | <u>25</u> | <u>29</u> | <u>36</u> |
| A Operator                | 3/5*                 |          | 3/7*      |           |           |           |
| B Operator                |                      |          |           |           |           | 3/3*      |
| Analyzer Mechanic A/B     | 2                    |          |           |           |           |           |
| Maintenance (All Crafts)  | 3                    |          |           |           |           |           |
| A Analyst - Shift         |                      | 0/3*     |           |           |           |           |
| B Analyst - Shift         |                      | 3/3*     |           |           |           |           |
| A Analyst - Day           |                      | 2/4*     |           |           |           |           |
| A/B Personnel             |                      |          |           | 5         |           |           |
| Clerk/Technical           |                      |          |           |           | 2         |           |

\*8 Hour TWA/STEL

NOTE: Obtain additional samples on operations and maintenance personnel during turnaround (~7 samples).

005856

Acetic Acid Samples

| <u>Job Classification</u> | <u>Exposure Zone</u> |          |           |           |           |           |
|---------------------------|----------------------|----------|-----------|-----------|-----------|-----------|
|                           | <u>3</u>             | <u>6</u> | <u>23</u> | <u>25</u> | <u>29</u> | <u>36</u> |
| A Operator                | 7/7*                 |          | 7/7*      |           |           |           |
| B Operator                |                      |          |           |           |           | 7/7*      |
| Analyzer Mechanic A/B     | 5                    |          |           |           |           |           |
| Maintenance (All Crafts)  | 7                    |          |           |           |           |           |
| A Analyst - Shift         |                      | 5/3*     |           |           |           |           |
| B Analyst - Shift         |                      | 5/3*     |           |           |           |           |
| A Analyst - Day           |                      | 5/3*     |           |           |           |           |
| A/B Personnel             |                      |          |           | 5         |           |           |
| Clerk/Technical           |                      |          |           |           | 4         |           |

\*8 Hr TWA/STEL

NOTE: Obtain additional samples on operations and maintenance personnel during turnaround (~7 samples).

005857

n-Butanol Samples

| <u>Job Classification</u> | <u>Exposure Zone</u> |          |           |           |           |
|---------------------------|----------------------|----------|-----------|-----------|-----------|
|                           | <u>5</u>             | <u>6</u> | <u>23</u> | <u>25</u> | <u>29</u> |
| A Operator                | 7/7*                 |          | 7/7*      |           |           |
| B Operator                | 7/7*                 |          |           |           |           |
| Analyzer Mechanic         | 5                    |          |           |           |           |
| Maintenance (All Crafts)  | 7                    |          |           |           |           |
| A Analyst - Shift         |                      | 5/3*     |           |           |           |
| B Analyst - Shift         |                      | 5/3*     |           |           |           |
| A Analyst - Day           |                      | 5/3*     |           |           |           |
| A/B Personnel             |                      |          |           | 5         |           |
| Clerk/Technical           |                      |          |           |           | 5         |

\*8 Hr TWA/STEL

NOTE: Obtain additional samples on operations and maintenance personnel during turnaround (~7 samples).

005858

n-Propanol Samples

| <u>Job Classification</u> | <u>Exposure Zone</u> |          |           |           |           |
|---------------------------|----------------------|----------|-----------|-----------|-----------|
|                           | <u>5</u>             | <u>6</u> | <u>23</u> | <u>25</u> | <u>29</u> |
| A Operator                | 5/3*                 |          | 7/7*      |           |           |
| B Operator                | 0/3*                 |          |           |           |           |
| Analyzer Mechanic         | 4                    |          |           |           |           |
| Maintenance (All Crafts)  | 4                    |          |           |           |           |
| A Analyst - Shift         |                      | 5/3*     |           |           |           |
| B Analyst - Shift         |                      | 5/3*     |           |           |           |
| A Analyst - Day           |                      | 5/3*     |           |           |           |
| A/B Personnel             |                      |          |           | 5         |           |
| Clerk/Technical           |                      |          |           |           | 4         |

\*8 Hr TWA/STEL

NOTE: Obtain additional samples on operations and maintenance personnel during turnaround (~7 samples).

005859

Noise Samples

| <u>Exposure Zone</u> | <u>Job Classification</u> | <u>Number of Samples</u> |
|----------------------|---------------------------|--------------------------|
| 002                  | A Operator                | 3                        |
| 003                  | A Operator                | 3                        |
| 005                  | Shift Supervisor          | 3                        |
| 005                  | A Operator                | 3                        |
| 005                  | B Operator                | 3                        |
| 007                  | A Operator                | 3                        |
| 008                  | B Operator                | 3                        |
| 009                  | A Operator                | 3                        |
| 020                  | Shift Supervisor          | 3                        |
| 020                  | A Operator                | 3                        |
| 020                  | B Operator                | 3                        |
| 023                  | A Operator                | 3                        |
| 023                  | Shift Supervisor          | 3                        |
| 032                  | A Operator                | 3                        |
| 033                  | Shift Supervisor          | 3                        |
| 036                  | Shift Supervisor          | 3                        |
| 036                  | B Operator                | 3                        |
|                      | Boilermaker               | 3                        |
|                      | Electrician               | 3                        |
|                      | Instrument Person         | 3                        |
|                      | Pipefitter                | 3                        |
|                      | Machnist                  | 3                        |
|                      | Rigger                    | 3                        |
|                      | Welder                    | 3                        |
|                      | Analyzer Mechanic         | 3                        |
|                      | A/Brothers Personnel      | 15                       |

005860

Miscellaneous Samples

| <u>Contaminant</u>   | <u>Exposure<br/>Zone</u> | <u>Job Classification</u> | <u>Number Of<br/>Samples</u> |
|----------------------|--------------------------|---------------------------|------------------------------|
| Triphenylphosphine   | 5                        | A/B Operator              | 5                            |
|                      | 20                       | A/B Operator              | 5                            |
| Benzene              | 6                        | A/B Analyst               | 5                            |
|                      | 20                       | A/B Operator              | 5/5*                         |
|                      | 23                       | A Operator                | 5/5*                         |
| Carbon Tetrachloride | 6                        | A/B Analyst               | 3                            |
| Chloroform           | 6                        | A/B Analyst               | 3                            |
| Hydrazine            | 7                        | A Operator                | 0/3*                         |
|                      | 7                        | Area                      | 3                            |
| Lime                 | 7                        | A Operator                | 5                            |
| Hydrogen Sulfide     | 20                       | A/B Operator              | 3                            |
| Nickel Carbonyl      | 32                       | Area                      | As Needed                    |
| Iron Carbonyl        | 32                       | Area                      | As Needed                    |
| Welding Fume         | 3                        | Welder                    | 10                           |
| Asbestos             | -                        | A/B Personnel             | 10                           |

\*8 Hr TWA/STEL

005861

### EXPOSURE RATINGS

- 1 - Major potential contact - characterized by manual and maintenance operations such as emergency repairs, clean up spills, packaging volatile or dusty materials without exhaust ventilation; changing catalyst, cleaning vessels.
- 2 - Moderate potential contact - characterized by manual operations such as bagging chemicals, catching samples, materials handling.
- 3 - Minor contact - characterized by semi-closed systems with low level exposure likely.
- 4 - No contact - characterized by closed chemical system which prevents occupational exposure.

## Industrial Hygiene Monitoring Guidelines

|                                                                                                                                                        | <u>Priority Rating</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Monitoring to insure acceptable exposure to regulated or suspect carcinogens (Benzene, Asbestos, Hydrazine, Nickel, Carbon Tetrachloride, Chloroform). | 1                      |
| Monitoring indicated by Ames or other toxicological testing.                                                                                           | 2                      |
| Monitoring to determine compliance position with new OSHA regulations.                                                                                 | 2                      |
| Monitoring to establish baseline conditions and "average" employee exposure to key plant products and raw materials for the Health Monitoring Program. | 2                      |
| Monitoring to determine compliance position with new NIOSH recommendations.                                                                            | 3                      |
| Monitoring chemicals (not previously included) throughout the plant with exposure rating of 2 (moderate potential for exposure).                       | 3                      |
| Monitoring chemicals (not previously included) with exposure ratings of 3 (minor contact).                                                             | 4                      |

Exposure and Monitoring Priority Ratings For

Bay City Plant Contaminants

| <u>Exposure Zone 1</u>             | <u>Exposure Rating</u> | <u>Priority Rating</u> |
|------------------------------------|------------------------|------------------------|
| Carbon Monoxide                    | 2                      | 2                      |
| Welding Fume                       | 2                      | 1                      |
| Noise                              | -                      | 2                      |
| 1,1,1. Trichloroethane             | 2                      | 3                      |
| <u>Exposure Zone 2</u>             |                        |                        |
| Acetaldehyde                       | 2                      | 2                      |
| Noise                              | -                      | 2                      |
| Chloroacetaldehyde                 | 4 (3)                  | 2                      |
| <u>Exposure Zone 3</u>             |                        |                        |
| Noise                              | -                      | 2                      |
| PBQ                                | 2                      | 3                      |
| Vinyl Acetate                      | 2                      | 2                      |
| Hydroquinone                       | 2                      | 3                      |
| Acetic Acid                        | 2                      | 2                      |
| Chloroacetaldehyde                 | 4 (3)                  | 2                      |
| <u>Exposure Zone 4</u>             |                        |                        |
| Noise                              | -                      | 2                      |
| <u>Exposure Zone 5</u>             |                        |                        |
| Noise                              | -                      | 2                      |
| n-Propanol                         | 2                      | 2                      |
| Carbon Monoxide                    | 3 (4)                  | 2                      |
| n-Butanol                          | 2                      | 2                      |
| TPP                                | 2 (3)                  | 2                      |
| Butyraldehyde                      | 2                      | 2                      |
| Propionaldehyde                    | 2                      | 2                      |
| Nickel (Raney Catalyst)            | 2                      | 1                      |
| Iso Butanol                        | 2                      | 2                      |
| Iso Butyraldehyde                  | 2                      | 2                      |
| <u>Exposure Zone 6/10/28/29/30</u> |                        |                        |
| n-Butanol                          | 2                      | 2                      |
| n-Propanol                         | 2                      | 2                      |
| Acetic Acid                        | 2                      | 2                      |
| Acetaldehyde                       | 2                      | 2                      |
| Vinyl Acetate                      | 2                      | 2                      |
| Benzene                            | 2                      | 1                      |
| Carbon Tetrachloride               | 2                      | 1                      |
| Chloroform                         | 2                      | 1                      |
| Iso-Butanol                        | 2                      | 2                      |

005864

| <u>Exposure Zone 6/10/28/29/30</u> | <u>Exposure Rating</u> | <u>Priority Rating</u> |
|------------------------------------|------------------------|------------------------|
| Iso Butyraldehyde                  | 2                      | 2                      |
| Butyraldehyde                      | 2                      | 2                      |
| Propionaldehyde                    | 2                      | 2                      |
| Heptanal                           | 2                      | 2                      |
| Noise                              | -                      | 2                      |
| Nonanal                            | 2                      | 2                      |
| Heptanoic Acid                     | 2                      | 2                      |
| Nonanoic Acid                      | 2                      | 2                      |
| <u>Exposure Zone 7</u>             |                        |                        |
| Calcium Oxide (Lime)               | 2                      | 3                      |
| Hydrazine                          | 3                      | 1                      |
| Noise                              | -                      | 2                      |
| <u>Exposure Zone 8</u>             |                        |                        |
| Noise                              | -                      | 2                      |
| Ferrous Sulfate                    | 2                      | 3                      |
| <u>Exposure Zone 9</u>             |                        |                        |
| Noise                              | -                      | 2                      |
| Carbon Monoxide                    | 3 (4)                  | 2                      |
| <u>Exposure Zone 11</u>            |                        |                        |
| Noise                              | -                      | 2                      |
| <u>Exposure Zone 20</u>            |                        |                        |
| Noise                              | -                      | 2                      |
| Carbon Monoxide                    | 3 (4)                  | 2                      |
| Benzene                            | 2 (3)                  | 1                      |
| Oxalic Acid                        | 2                      | 3                      |
| Hydrogen Sulfide                   | 3 (4)                  | 2                      |
| TPP                                | 2 (3)                  | 2                      |
| Manganese Acetate                  | 2                      | 3                      |
| Copper Acetate                     | 2                      | 3                      |
| Heptanal                           | 2                      | 2                      |
| Nonanal                            | 2                      | 2                      |
| Heptanoic Acid                     | 2                      | 2                      |
| Nonanoic Acid                      | 2                      | 2                      |
| <u>Exposure Zone 22</u>            |                        |                        |
| Noise                              | -                      | 2                      |
| <u>Exposure Zone 23</u>            |                        |                        |
| Vinyl Acetate                      | 2                      | 2                      |
| Noise                              | -                      | 2                      |
| Acetaldehyde                       | 2                      | 2                      |
| Benzene                            | 2                      | 1                      |

| <u>Exposure Zone 23</u> | <u>Exposure Rating</u> | <u>Priority Rating</u> |
|-------------------------|------------------------|------------------------|
| n-Butanol               | 2                      | 2                      |
| n-Propanol              | 2                      | 2                      |
| Acetic Acid             | 2                      | 2                      |
| Isobutyraldehyde        | 2                      | 2                      |
| Isobutanol              | 2                      | 2                      |
| Heptanoic Acid          | 2                      | 2                      |
| Nonanoic Acid           | 2                      | 2                      |
| <u>Exposure Zone 24</u> |                        |                        |
| Noise                   | -                      | 2                      |
| <u>Exposure Zone 25</u> |                        |                        |
| n-Butanol               | 2                      | 2                      |
| n-Propanol              | 2                      | 2                      |
| Acetic Acid             | 2                      | 2                      |
| Acetaldehyde            | 2                      | 2                      |
| Vinyl Acetate           | 2                      | 2                      |
| Iso Butanol             | 2                      | 2                      |
| Iso Butyraldehyde       | 2                      | 2                      |
| Heptanoic Acid          | 2                      | 2                      |
| Nonanoic Acid           | 2                      | 2                      |
| Noise                   | -                      | 2                      |
| <u>Exposure Zone 32</u> |                        |                        |
| Noise                   | -                      | 2                      |
| Carbon Monoxide         | 3 (4)                  | 2                      |
| Nickel (Catalyst)       | 2                      | 1                      |
| Nickel Carbonyl         | 3 (4)                  | 2                      |
| Iron Carbonyl           | 3 (4)                  | 2                      |
| <u>Exposure Zone 33</u> |                        |                        |
| Noise                   | -                      | 2                      |
| Carbon Monoxide         | 3 (4)                  | 2                      |
| <u>Exposure Zone 34</u> |                        |                        |
| Methyl Ethyl Ketone     | 1 (2)                  | 3                      |
| Silica (crystalline)    | 1 (2)                  | 3                      |
| Noise                   | -                      | 2                      |
| <u>Exposure Zone 35</u> |                        |                        |
| Acetic Acid             | 2                      | 2                      |
| Benzene                 | 2                      | 1                      |
| <u>Exposure Zone 36</u> |                        |                        |
| Noise                   | -                      | 2                      |
| Vinyl Acetate           | 2                      | 2                      |
| Acetaldehyde            | 2                      | 2                      |

General

Asbestos  
Welding Fume

Exposure  
Rating

1 (3)  
2

Priority  
Rating

1  
1

- Total Particulates
- Nickel
- Copper
- Iron Oxide
- Total Chrome
- Chrome VI

005867

## Office Memorandum

|                                     |                            |
|-------------------------------------|----------------------------|
| Name and Location)<br>*As Listed    | DATE<br>January 21, 1983   |
| (Name and Location)<br>A. B. Savage | REFERENCE NO.<br>ABS-11-83 |

\*E. L. Tejml

K. A. Dunn

J. N. Gann

C. R. Pennington

R. E. Allen

W. G. Cornman

L. J. Cribb

cc: B. L. Fritz

L. T. Pless

B. A. Logue

J. C. Nash

G. E. Organ

C. W. Whaley

C. C. Stone

C. D. Barrett - Dallas

M. L. Stenzel - Dallas

SUBJECT: Industrial Hygiene Monitoring 1983

Bay City Plant management is committed to providing a safe and healthy work place for its employees. All feasible means will be utilized to prevent significant employee exposure to industrial chemicals and prevent increased employee hearing impairment.

To implement this commitment, it is necessary to monitor the plant employees' exposure to various potentially hazardous chemical and physical agents. This is accomplished by obtaining a series of samples on a representative group of employees who are potentially exposed to these agents.

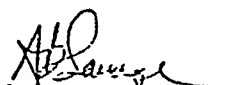
C. W. Whaley defined a monitoring program for 1983 in his letter CWW-358-82. I have attached a copy of that program as revised.

Each supervisor should help his employees realize this sampling is being done to protect the employee and that his participation is a required job function.

We will provide a sample schedule to each supervisor/group leader at least a week prior to sampling. The unit supervisor/group leader should have the designated employee prepared for monitoring at the scheduled time. The sampling devices are such that they should not interfere with the employee's assigned work.

The unit supervisor/group leader's role is vital in the success of the program. With your cooperation and support this program should run smoothly.

Noise and vinyl acetate monitoring will start in February. I will be issuing a schedule next week.



A. B. Savage

ABS/las

Attach.

005868

TABLE I  
1983 Industrial Hygiene Monitoring Schedule

| <u>Contaminant</u> | <u>Zone</u>  | <u>Job Classification</u>                                              | <u>Number of Samples</u> |
|--------------------|--------------|------------------------------------------------------------------------|--------------------------|
| Noise              | 002          | A Operator                                                             | 5                        |
| "                  | 003          | A Operator                                                             | 5                        |
| "                  | 005          | Shift Supervisor                                                       | 5                        |
| "                  | 005          | A Operator                                                             | 5                        |
| "                  | 005          | B Operator                                                             | 5                        |
| "                  | 007          | A Operator                                                             | 5                        |
| "                  | 008          | B Operator                                                             | 5                        |
| "                  | 009          | A Operator                                                             | 5                        |
| "                  | 020          | Shift Supervisor                                                       | 5                        |
| "                  | 020          | A Operator                                                             | 5                        |
| "                  | 020          | B Operator                                                             | 5                        |
| "                  | 023          | A Operator                                                             | 5                        |
| "                  | 023          | Shift Supervisor                                                       | 5                        |
| "                  | 032          | A Operator                                                             | 5                        |
| "                  | 033          | Shift Supervisor                                                       | 5                        |
| "                  | 036          | Shift Supervisor                                                       | 5                        |
| "                  | 036          | B Operator                                                             | 5                        |
| "                  | ----         | Boilermaker                                                            | 5                        |
| "                  | ----         | Electrician                                                            | 5                        |
| "                  | ----         | Instrument Person                                                      | 5                        |
| "                  | ----         | Pipefitter                                                             | 5                        |
| "                  | ----         | Machinist                                                              | 5                        |
| "                  | ----         | Rigger                                                                 | 5                        |
| "                  | ----         | Welder                                                                 | 5                        |
| "                  | ----         | Analyzer Mechanic                                                      | 5                        |
| Total              |              |                                                                        | 125                      |
| Vinyl Acetate      | 003          | A Operator                                                             | 4*                       |
| "                  | 006          | A Analyst - Shift                                                      | 4                        |
| "                  | 006          | B Analyst - Shift                                                      | 3                        |
| "                  | 006          | A Analyst - Day                                                        | 3                        |
| "                  | 010          | A Analyst - Shift                                                      | 4                        |
| "                  | 010          | A Analyst - Day                                                        | 4                        |
| "                  | 023          | A Operator                                                             | 5                        |
| "                  | 029          | Clerk (Technical)                                                      | 5                        |
| "                  | 036          | B Operator                                                             | 10**                     |
| "                  | 033 &<br>036 | Maintenance Personnel<br>(Machinist, Boilermaker,<br>Pipefitter, etc.) | 7                        |
| "                  | 036          | Analyzer Mechanic                                                      | 5                        |
| Total              |              |                                                                        | 64                       |

\* Take about 6 8-hour TWA samples during shutdown of unit.

\*\* Take about 5 STEL samples during PBQ mixing.

005869

TABLE I (Cont'd)

| <u>Contaminant</u> | <u>Zone</u> | <u>Job Classification</u> | <u>Number of Samples</u> |
|--------------------|-------------|---------------------------|--------------------------|
| Propanol           | 005         | A Operator                | 12*                      |
| "                  |             | B Operator                | 12*                      |
| "                  | 006         | A Analyst - Shift         | 4                        |
| "                  |             | B Analyst - Shift         | 4                        |
| "                  | 006         | A Analyst - Day           | 7.                       |
| "                  | 010         | A Analyst - Shift         | 4                        |
| "                  | 010         | A Analyst - Day           | 4                        |
| "                  | 023         | A Operator                | 10                       |
| "                  | 029         | Clerk (Technical)         | 7                        |
| "                  | 005         | Maintenance Personnel     | 15**                     |
| "                  | 005         | Analyzer Mechanic         | <u>7</u>                 |
| Total              |             |                           | 86                       |

\* Take about 6 8-hour TWA samples during shutdown of unit.

\*\*Take about 6 8-hour TWA samples during unit turnaround.

Other contaminants (i.e., carbon monoxide, welding fume, triphenylphosphine, nickel carbonyl, lime, hydrazene, parabenzoquinone, asbestos, etc.) will be monitored as time permits or upon request.

Total

41

*Actt*

*006 A Analyst-Day*

*002 Outside A*

*~~Shipping and Receiving~~*

*023 Operator A*

*006 A Analyst-Shift*

*UA S/D welding test Reactor*

005870