**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*ontgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035-01090010

*Analysis Method:* 418.1

*Sample Description:* Soil

*Laboratory Reference #:* MWI 8973

*Sampled :* 04-24-97
*Received:* 04-24-97
*Analyzed:* 04-25-97
*Reported:* 04-25-97

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

| *Laboratory Sample Number* | *Client Sample Number* | *Sample Result (mg/kg)* |
|---|---|---|
| 97041296 | B37-RE4-SP52 | 76 |
| Detection Limit: | | 8.0 |

Analyte reported as N.D. was not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*Montgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035-01090010

*Sample Description:* Soil, B37-RE4-SP52

*Laboratory Sample Number:* 97041296
*Laboratory Reference #:* MWI 8973

*Sampled:* 04-24-97
*Received:* 04-24-97
*Analyzed:* 05-06-97
*Reported:* 05-07-97

CCR - METALS

| *Analyte* | *EPA Method* | *STLC Limits mg/l* | *TTLC Limits mg/kg* | *Detection Limit mg/kg* | *Analysis Result mg/kg* | |
|---|---|---|---|---|---|---|
| Antimony | 6010 | 15 | 500 | 5.0 | N.D. | |
| Arsenic | 6010 | 5.0 | 500 | 1.0 | N.D. | |
| Barium | 6010 | 100 | 10000 | 0.1 | 91 | <--- |
| Beryllium | 6010 | 0.75 | 75 | 0.1 | N.D. | |
| Cadmium | 6010 | 1.0 | 100 | 0.1 | 2.8 | <--- |
| Chromium (VI) | 7196 | 5.0 | 500 | 0.5 | N.D. | |
| Chromium Total | 6010 | 560 | 2500 | 0.05 | 35 | <--- |
| Cobalt | 6010 | 80 | 8000 | 0.5 | 6.8 | <--- |
| Copper | 6010 | 25 | 2500 | 0.1 | 16 | <--- |
| Lead | 6010 | 5.0 | 1000 | 1.0 | 34 | <--- |
| Mercury | 7471 | 0.2 | 20 | 0.01 | N.D. | |
| Molybdenum | 6010 | 350 | 3500 | 0.5 | N.D. | |
| Nickel | 6010 | 20 | 2000 | 0.5 | 12 | <--- |
| Selenium | 6010 | 1.0 | 100 | 1.0 | N.D. | |
| Silver | 6010 | 5.0 | 500 | 0.1 | N.D. | |
| Thallium | 6010 | 7.0 | 700 | 5.0 | N.D. | |
| Vanadium | 6010 | 24 | 2400 | 0.5 | 26 | <--- |
| Zinc | 6010 | 250 | 5000 | 0.1 | 60 | <--- |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

**Montgomery Watson**
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

***Client Project ID:*** McDonnell Douglas
***Client Project #:*** 1206035-01090010

***Sample Description:*** Soil, B37-RE4-SP52
***Laboratory Sample Number:*** 97041296
***Laboratory Reference #:*** MWI 8973

***Sampled:*** 04-24-97
***Received:*** 04-24-97
***Analyzed:*** 04-29-97
***Reported:*** 05-07-97

Volatile Organics by GC/MS (EPA 8260)

| ***ANALYTE*** | ***CAS NUMBER*** | ***DETECTION LIMIT (ug/kg)*** | ***SAMPLE RESULT (ug/kg)*** |
|---|---|---|---|
| Benzene | 71-43-2 | 2.5 | N.D. |
| Bromodichloromethane | 75-27-4 | 2.5 | N.D. |
| Bromoform | 75-25-2 | 2.5 | N.D. |
| Bromomethane | 74-83-9 | 2.5 | N.D. |
| Carbon Disulfide | 75-15-0 | 5.0 | N.D. |
| Carbon tetrachloride | 56-23-5 | 2.5 | N.D. |
| Chlorobenzene | 108-90-7 | 2.5 | N.D. |
| Chlorodibromomethane | 124-48-1 | 2.5 | N.D. |
| Chloroethane | 75-00-3 | 2.5 | N.D. |
| 2-Chloroethyl vinyl ether | 110-75-8 | 5.0 | N.D. |
| Chloroform | 67-66-3 | 2.5 | N.D. |
| Chloromethane | 74-87-3 | 2.5 | N.D. |
| 1,1-Dichloroethane | 75-35-3 | 2.5 | N.D. |
| 1,2-Dichloroethane | 107-06-2 | 2.5 | N.D. |
| 1,1-Dichloroethene | 75-35-4 | 2.5 | N.D. |
| Trans 1,2-Dichloroethene | 156-60-5 | 2.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 2.5 | N.D. |
| cis-1,3-Dichloropropene | 10061-01-5 | 2.5 | N.D. |
| trans-1,3-Dichloropropene | 10061-02-6 | 2.5 | N.D. |
| Ethylbenzene | 100-41-4 | 2.5 | N.D. |
| Methylene chloride | 75-09-2 | 5.0 | N.D. |
| Styrene | 100-42-5 | 2.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 2.5 | N.D. |
| Tetrachloroethene | 127-18-4 | 2.5 | N.D. |
| Toluene | 108-88-3 | 2.5 | N.D. |
| 1,1,1-Trichloroethane | 71-55-6 | 2.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 2.5 | N.D. |
| Trichloroethene | 79-01-6 | 2.5 | N.D. |
| Trichlorofluoromethane | 75-69-4 | 5.0 | N.D. |
| Vinyl acetate | 108-05-4 | 5.0 | N.D. |
| Vinyl chloride | 75-01-4 | 2.5 | N.D. |
| Total Xylenes | 1330-20-7 | 2.5 | N.D. |
| Dichlorofluoromethane | 75-71-8 | 2.5 | N.D. |
| cis-1-2,-Dichloroethane | 156-59-4 | 2.5 | N.D. |
| 2,2-Dichloropropane | 590-20-7 | 2.5 | N.D. |
| Bromochloromethane | 74-97-5 | 2.5 | N.D. |
| 1,1-Dichloropropene | 563-58-6 | 2.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 2.5 | N.D. |
| Dibromomethane | 74-95-3 | 2.5 | N.D. |
| trans-1,3-Dichloropropane | 10061-02-6 | 2.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 2.5 | N.D. |
| 1,2-Dibromoethane | 106-93-4 | 2.5 | N.D. |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Soil, B37-Re4-SP52

Laboratory Sample Number: 97041296

Volatile Organics by GC/MS (EPA 8260)

| ANALYTE | CAS NUMBER | DETECTION LIMIT (ug/kg) | SAMPLE RESULT (ug/kg) |
|---|---|---|---|
| 1,3-Dichloropropane | 142-28-9 | 2.5 | N.D. |
| Dibromochloromethane | 124-48-1 | 2.5 | N.D. |
| Isopropylbenzene | 98-82-8 | 2.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 2.5 | N.D. |
| 1,2,3-Trichloropropane | 96-18-4 | 2.5 | N.D. |
| Bromobenzene | 108-86-1 | 2.5 | N.D. |
| n-Propylbenzene | 103-65-1 | 2.5 | N.D. |
| 2-Chlorotoluene | 95-49-8 | 2.5 | N.D. |
| 1,3,5-Trimethylbenzene | 108-67-8 | 2.5 | N.D. |
| 4-Chlorotoluene | 106-43-4 | 2.5 | N.D. |
| tert-Butylbenzene | 98-06-6 | 2.5 | N.D. |
| 1,2,4-Trimethylbenzene | 95-63-6 | 2.5 | N.D. |
| sec-Butylbenzene | 135-98-8 | 2.5 | N.D. |
| 4-Isopropyltoluene | 99-87-6 | 2.5 | N.D. |
| 1,3-Dichlorobenzene | 541-73-1 | 2.5 | N.D. |
| 1,4-Dichlorobenzene | 106-46-7 | 2.5 | N.D. |
| n-Butylbenzene | 104-51-8 | 2.5 | N.D. |
| 1,2-Dichlorobenzene | 95-50-1 | 2.5 | N.D. |
| 1-2-Dibromo-2-CPA | 96-12-8 | 5.0 | N.D. |
| 1,2,4-Trichlorobenzene | 120-82-1 | 2.5 | N.D. |
| Hexachlorobutadiene | 87-68-3 | 2.5 | N.D. |
| Naphthalene | 91-20-3 | 2.5 | N.D. |
| 1,2,3-Trichlorobenzene | 87-61-6 | 2.5 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

| *Surrogate Recoveries* | *%* |
|---|---|
| *Dibromofluoromethane* | *113* |
| *Toluene-d8* | *98* |
| *4-Bromofluorobenbzene* | *98* |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*tgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

***Client Project ID:*** McDonnell Douglas
***Client Project #:*** 1206035-01090010

***Sample Description:*** Soil, B37-RE4-SP52
***Laboratory Sample #:*** 97041296
***Laboratory Reference #:*** MWI 8973

***Sampled :*** 04-24-97
***Received:*** 04-24-97
***Analyzed:*** 04-30-97
***Reported:*** 05-06-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT ug/kg* | *SAMPLE RESULTS ug/kg* | |
|---|---|---|---|---|
| Acenaphthene | 83-32-9 | 100 | N.D. | |
| Acenaphthylene | 208-96-8 | 100 | N.D. | |
| Aniline | 62-53-3 | 100 | N.D. | |
| Anthracene | 120-12-7 | 100 | N.D. | |
| Benzidine | 92-87-5 | 500 | N.D. | |
| Benzoic Acid | 65-85-0 | 250 | N.D. | |
| Benzo(a)anthracene | 56-55-3 | 100 | 570 | <--- |
| Benzo(b)fluoranthene | 205-99-2 | 250 | 740 | <--- |
| Benzo(k)fluoranthene | 207-08-9 | 250 | 300 | <--- |
| Benzo(g,h,i)perylene | 191-24-2 | 250 | N.D. | |
| Benzo(a)pyrene | 50-32-8 | 250 | 590 | <--- |
| benzyl alcohol | 100-51-6 | 100 | N.D. | |
| Bis(2-chloroethoxy)methane | 111-91-1 | 100 | N.D. | |
| Bis(2-chloroethyl)ether | 111-44-4 | 100 | N.D. | |
| Bis(2-chloroisopropyl)ether | 39638-32-9 | 100 | N.D. | |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 100 | N.D. | |
| 4-Bromophenyl phenyl ether | 101-55-3 | 100 | N.D. | |
| Butyl benzyl phthalate | 85-68-7 | 100 | N.D. | |
| 4-Chloroaniline | 106-47-8 | 100 | N.D. | |
| 2-Chloronaphthalene | 91-58-7 | 100 | N.D. | |
| 4-Chloro-3-methylphenol | 59-50-7 | 100 | N.D. | |
| 2-Chlorophenol | 95-57-8 | 100 | N.D. | |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 100 | N.D. | |
| Chrysene | 218-0109 | 100 | 600 | <--- |
| Dibenz(a,h)anthracene | 53-70-3 | 100 | N.D. | |
| Dibenzofuran | 132-64-9 | 100 | N.D. | |
| Di-n-butyl phthalate | 84-74-2 | 250 | N.D. | |
| 1,3-Dichlorobenzene | 541-73-1 | 100 | N.D. | |
| 1,4-Dichlorobenzene | 106-46-7 | 100 | N.D. | |
| 1,2-Dichlorobenzene | 95-50-1 | 100 | N.D. | |
| 3,3'-Dichlorobenzidine | 91-94-1 | 100 | N.D. | |
| 2,4-Dichlorophenol | 120-83-2 | 100 | N.D. | |
| Diethyl phthalate | 84-66-2 | 100 | N.D. | |
| 2,4-Dimethylphenol | 105-67-9 | 100 | N.D. | |
| Dimethyl phthalate | 131-11-3 | 100 | N.D. | |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 100 | N.D. | |
| 2,4-Dinitrophenol | 51-28-5 | 100 | N.D. | |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270) (continued)

Sample Description: Soil, B37-RE4-SP52
Laboratory Sample #: 97041296

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT ug/kg* | *SAMPLE RESULTS ug/kg* | |
|---|---|---|---|---|
| 2,4-Dinitrotoluene | 121-14-2 | 250 | N.D. | |
| 2,6-Dinitrotoluene | 606-20-2 | 250 | N.D. | |
| Di-n-octyl phthalate | 117-84-0 | 250 | N.D. | |
| Fluoranthene | 206-44-0 | 100 | 660 | <--- |
| Fluorene | 86-73-7 | 100 | N.D. | |
| Hexachlorobenzene | 118-74-1 | 100 | N.D. | |
| Hexachlorobutadiene | 87-68-3 | 100 | N.D. | |
| Hexachlorocyclopentadiene | 77-47-4 | 100 | N.D. | |
| Hexachloroethane | 67-72-1 | 100 | N.D. | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 250 | N.D. | |
| Isophorone | 78-59-1 | 100 | N.D. | |
| 2-Methylnaphthalene | 91-57-6 | 100 | N.D. | |
| 2-Methylphenol | 95-48-7 | 100 | N.D. | |
| 4-Methylphenol | 106-44-5 | 100 | N.D. | |
| Naphthalene | 91-20-3 | 100 | N.D. | |
| 2-Nitroaniline | 88-74-4 | 250 | N.D. | |
| 3-Nitroaniline | 99-09-2 | 250 | N.D. | |
| 4-Nitroaniline | 100-01-6 | 250 | N.D. | |
| Nitrobenzene | 98-95-3 | 100 | N.D. | |
| 2-Nitrophenol | 88-75-5 | 100 | N.D. | |
| 4-Nitrophenol | 100-02-7 | 100 | N.D. | |
| N-Nitrosodiphenylamine | 86-30-6 | 100 | N.D. | |
| N-Nitroso-di-n-propylamine | 621-64-7 | 100 | N.D. | |
| N-Nitrosodimethylamine | 62-75-9 | 100 | N.D. | |
| Pentachlorophenol | 87-86-5 | 250 | N.D. | |
| Phenanthrene | 85-01-8 | 100 | 220 | <--- |
| Phenol | 108-95-2 | 100 | N.D. | |
| Pyrene | 129-00-0 | 100 | 550 | <--- |
| 1,2,4-Trichlorobenzene | 120-82-1 | 100 | N.D. | |
| 2,4,5-Trichlorophenol | 95-95-4 | 100 | N.D. | |
| 2,4,6-Trichlorophenol | 88-06-2 | 100 | N.D. | |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*ontgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035-01090010

*Analysis Method:* 418.1

*Sample Description:* Water

*Laboratory Reference #:* MWI 8973

*Sampled :* 04-24-97
*Received:* 04-24-97
*Analyzed:* 04-29-97
*Reported:* 05-07-97

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

| *Laboratory Sample Number* | *Client Sample Number* | *Sample Result (mg/l)* |
|---|---|---|
| 97041297 | Equip Blank | N.D. |
| 97041298 | Rinsate Blank | N.D. |
| Detection Limit: | | 0.5 |

Analyte reported as N.D. was not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*Montgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035.01090010

*Sample Description:* Water, Equip Blank

*Laboratory Sample Number:* 97041297
*Laboratory Reference #:* MWI 8973

*Sampled:* 04-24-97
*Received:* 04-24-97
*Analyzed:* 05-02-97
*Reported:* 05-06-97

CCR - METALS

| *Analyte* | *EPA Method* | *Detection Limit mg/l* | *Analysis Result mg/l* |
|---|---|---|---|
| Antimony | 6010 | 0.5 | N.D. |
| Arsenic | 6010 | 0.1 | N.D. |
| Barium | 6010 | 0.01 | N.D. |
| Beryllium | 6010 | 0.01 | N.D. |
| Cadmium | 6010 | 0.01 | N.D. |
| Chromium (VI) | 7196 | 0.01 | N.D. |
| Chromium (Total) | 6010 | 0.01 | N.D. |
| Cobalt | 6010 | 0.05 | N.D. |
| Copper | 6010 | 0.01 | N.D. |
| Lead | 6010 | 0.1 | N.D. |
| Mercury | 7471 | 0.002 | N.D. |
| Molybdenum | 6010 | 0.1 | N.D. |
| Nickel | 6010 | 0.05 | N.D. |
| Selenium | 6010 | 0.1 | N.D. |
| Silver | 6010 | 0.05 | N.D. |
| Thallium | 6010 | 0.5 | N.D. |
| Vanadium | 6010 | 0.1 | N.D. |
| Zinc | 6010 | 0.01 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*lontgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035.01090010

*Sample Description:* Water, Rinsate Blank

*Laboratory Sample Number:* 97041298
*Laboratory Reference #:* MWI 8973

*Sampled:* 04-24-97
*Received:* 04-24-97
*Analyzed:* 05-02-97
*Reported:* 05-06-97

CCR - METALS

| *Analyte* | *EPA Method* | *Detection Limit mg/l* | *Analysis Result mg/l* |
|---|---|---|---|
| Antimony | 6010 | 0.5 | N.D. |
| Arsenic | 6010 | 0.1 | N.D. |
| Barium | 6010 | 0.01 | N.D. |
| Beryllium | 6010 | 0.01 | N.D. |
| Cadmium | 6010 | 0.01 | N.D. |
| Chromium (VI) | 7196 | 0.01 | N.D. |
| Chromium (Total) | 6010 | 0.01 | N.D. |
| Cobalt | 6010 | 0.05 | N.D. |
| Copper | 6010 | 0.01 | N.D. |
| Lead | 6010 | 0.1 | N.D. |
| Mercury | 7471 | 0.002 | N.D. |
| Molybdenum | 6010 | 0.1 | N.D. |
| Nickel | 6010 | 0.05 | N.D. |
| Selenium | 6010 | 0.1 | N.D. |
| Silver | 6010 | 0.05 | N.D. |
| Thallium | 6010 | 0.5 | N.D. |
| Vanadium | 6010 | 0.1 | N.D. |
| Zinc | 6010 | 0.01 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

***Montgomery Watson***
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

***Client Project ID:*** McDonnell Douglas
***Client Project #:*** 1206035-01090010

***Sample Description:*** Water, Equip Blank
***Laboratory Sample Number:*** 97041297
***Laboratory Reference #:*** MWI 8973

***Sampled:*** 04-24-97
***Received:*** 04-24-97
***Analyzed:*** 05-06-97
***Reported:*** 05-07-97

Volatile Organics by GC/MS (EPA 8260)

| ***ANALYTE*** | ***CAS NUMBER*** | ***DETECTION LIMIT (ug/l)*** | ***SAMPLE RESULT (ug/l)*** |
|---|---|---|---|
| Benzene | 71-43-2 | 0.5 | N.D. |
| Bromodichloromethane | 75-27-4 | 0.5 | N.D. |
| Bromoform | 75-25-2 | 0.5 | N.D. |
| Bromomethane | 74-83-9 | 1.0 | N.D. |
| Carbon Disulfide | 75-15-0 | 0.5 | N.D. |
| Carbon tetrachloride | 56-23-5 | 0.5 | N.D. |
| Chlorobenzene | 108-90-7 | 0.5 | N.D. |
| Chlorodibromomethane | 124-48-1 | 0.5 | N.D. |
| Chloroethane | 75-00-3 | 0.5 | N.D. |
| 2-Chloroethyl vinyl ether | 110-75-8 | 1.0 | N.D. |
| Chloroform | 67-66-3 | 0.5 | N.D. |
| Chloromethane | 74-87-3 | 0.5 | N.D. |
| 1,1-Dichloroethane | 75-35-3 | 0.5 | N.D. |
| 1,2-Dichloroethane | 107-06-2 | 0.5 | N.D. |
| 1,1-Dichloroethene | 75-35-4 | 0.5 | N.D. |
| Trans 1,2-Dichloroethene | 156-60-5 | 0.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | N.D. |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.5 | N.D. |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.5 | N.D. |
| Ethylbenzene | 100-41-4 | 0.5 | N.D. |
| Methylene chloride | 75-09-2 | 2.5 | N.D. |
| Styrene | 100-42-5 | 0.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.5 | N.D. |
| Tetrachloroethene | 127-18-4 | 0.5 | N.D. |
| Toluene | 108-88-3 | 0.5 | N.D. |
| 1,1,1-Trichloroethane | 71-55-6 | 0.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | N.D. |
| Trichloroethene | 79-01-6 | 0.5 | N.D. |
| Trichlorofluoromethane | 75-69-4 | 0.5 | N.D. |
| Vinyl acetate | 108-05-4 | 1.0 | N.D. |
| Vinyl chloride | 75-01-4 | 0.5 | N.D. |
| Total Xylenes | 1330-20-7 | 1.0 | N.D. |
| Dichlorofluoromethane | 75-71-8 | 0.5 | N.D. |
| cis-1-2,-Dichloroethane | 156-59-4 | 0.5 | N.D. |
| 2,2-Dichloropropane | 590-20-7 | 0.5 | N.D. |
| Bromochloromethane | 74-97-5 | 0.5 | N.D. |
| 1,1-Dichloropropene | 563-58-6 | 0.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | N.D. |
| Dibromomethane | 74-95-3 | 0.5 | N.D. |
| trans-1,3-Dichloropropane | 10061-02-6 | 0.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | N.D. |
| 1,2-Dibromoethane | 106-93-4 | 0.5 | N.D. |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Equip Blank

Laboratory Sample Number: 97041297

Volatile Organics by GC/MS (EPA 8260)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT (ug/l)* | *SAMPLE RESULT (ug/l)* |
|---|---|---|---|
| 1,3-Dichloropropane | 142-28-9 | 0.5 | N.D. |
| Dibromochloromethane | 124-48-1 | 0.5 | N.D. |
| Isopropylbenzene | 98-82-8 | 0.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.5 | N.D. |
| 1,2,3-Trichloropropane | 96-18-4 | 0.5 | N.D. |
| Bromobenzene | 108-86-1 | 0.5 | N.D. |
| n-Propylbenzene | 103-65-1 | 0.5 | N.D. |
| 2-Chlorotoluene | 95-49-8 | 0.5 | N.D. |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.5 | N.D. |
| 4-Chlorotoluene | 106-43-4 | 0.5 | N.D. |
| tert-Butylbenzene | 98-06-6 | 0.5 | N.D. |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.5 | N.D. |
| sec-Butylbenzene | 135-98-8 | 0.5 | N.D. |
| 4-Isopropyltoluene | 99-87-6 | 0.5 | N.D. |
| 1,3-Dichlorobenzene | 541-73-1 | 0.5 | N.D. |
| 1,4-Dichlorobenzene | 106-46-7 | 0.5 | N.D. |
| n-Butylbenzene | 104-51-8 | 0.5 | N.D. |
| 1,2-Dichlorobenzene | 95-50-1 | 0.5 | N.D. |
| 1-2-Dibromo-2-CPA | 96-12-8 | 1.0 | N.D. |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.5 | N.D. |
| Hexachlorobutadiene | 87-68-3 | 0.5 | N.D. |
| Naphthalene | 91-20-3 | 0.5 | N.D. |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.5 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

| *Surrogate Recoveries* | *%* |
|---|---|
| *Dibromofluoromethane* | *115* |
| *Toluene-d8* | *98* |
| *4-Bromofluorobenzene* | *112* |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

***Montgomery Watson***
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

***Client Project ID:*** McDonnell Douglas
***Client Project #:*** 1206035-01090010

***Sample Description:*** Water, Rinsate Blank
***Laboratory Sample Number:*** 97041298
***Laboratory Reference #:*** MWI 8973

***Sampled:*** 04-24-97
***Received:*** 04-24-97
***Analyzed:*** 05-06-97
***Reported:*** 05-07-97

Volatile Organics by GC/MS (EPA 8260)

| ***ANALYTE*** | ***CAS NUMBER*** | ***DETECTION LIMIT (ug/l)*** | ***SAMPLE RESULT (ug/l)*** |
|---|---|---|---|
| Benzene | 71-43-2 | 0.5 | N.D. |
| Bromodichloromethane | 75-27-4 | 0.5 | N.D. |
| Bromoform | 75-25-2 | 0.5 | N.D. |
| Bromomethane | 74-83-9 | 1.0 | N.D. |
| Carbon Disulfide | 75-15-0 | 0.5 | N.D. |
| Carbon tetrachloride | 56-23-5 | 0.5 | N.D. |
| Chlorobenzene | 108-90-7 | 0.5 | N.D. |
| Chlorodibromomethane | 124-48-1 | 0.5 | N.D. |
| Chloroethane | 75-00-3 | 0.5 | N.D. |
| 2-Chloroethyl vinyl ether | 110-75-8 | 1.0 | N.D. |
| Chloroform | 67-66-3 | 0.5 | N.D. |
| Chloromethane | 74-87-3 | 0.5 | N.D. |
| 1,1-Dichloroethane | 75-35-3 | 0.5 | N.D. |
| 1,2-Dichloroethane | 107-06-2 | 0.5 | N.D. |
| 1,1-Dichloroethene | 75-35-4 | 0.5 | N.D. |
| Trans 1,2-Dichloroethene | 156-60-5 | 0.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | N.D. |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.5 | N.D. |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.5 | N.D. |
| Ethylbenzene | 100-41-4 | 0.5 | N.D. |
| Methylene chloride | 75-09-2 | 2.5 | N.D. |
| Styrene | 100-42-5 | 0.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.5 | N.D. |
| Tetrachloroethene | 127-18-4 | 0.5 | N.D. |
| Toluene | 108-88-3 | 0.5 | N.D. |
| 1,1,1-Trichloroethane | 71-55-6 | 0.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | N.D. |
| Trichloroethene | 79-01-6 | 0.5 | N.D. |
| Trichlorofluoromethane | 75-69-4 | 0.5 | N.D. |
| Vinyl acetate | 108-05-4 | 1.0 | N.D. |
| Vinyl chloride | 75-01-4 | 0.5 | N.D. |
| Total Xylenes | 1330-20-7 | 1.0 | N.D. |
| Dichlorofluoromethane | 75-71-8 | 0.5 | N.D. |
| cis-1-2,-Dichloroethane | 156-59-4 | 0.5 | N.D. |
| 2,2-Dichloropropane | 590-20-7 | 0.5 | N.D. |
| Bromochloromethane | 74-97-5 | 0.5 | N.D. |
| 1,1-Dichloropropene | 563-58-6 | 0.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | N.D. |
| Dibromomethane | 74-95-3 | 0.5 | N.D. |
| trans-1,3-Dichloropropane | 10061-02-6 | 0.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | N.D. |
| 1,2-Dibromoethane | 106-93-4 | 0.5 | N.D. |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Rinsate Blank

Laboratory Sample Number: 97041298

Volatile Organics by GC/MS (EPA 8260)

| ANALYTE | CAS NUMBER | DETECTION LIMIT (ug/l) | SAMPLE RESULT (ug/l) |
|---|---|---|---|
| 1,3-Dichloropropane | 142-28-9 | 0.5 | N.D. |
| Dibromochloromethane | 124-48-1 | 0.5 | N.D. |
| Isopropylbenzene | 98-82-8 | 0.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.5 | N.D. |
| 1,2,3-Trichloropropane | 96-18-4 | 0.5 | N.D. |
| Bromobenzene | 108-86-1 | 0.5 | N.D. |
| n-Propylbenzene | 103-65-1 | 0.5 | N.D. |
| 2-Chlorotoluene | 95-49-8 | 0.5 | N.D. |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.5 | N.D. |
| 4-Chlorotoluene | 106-43-4 | 0.5 | N.D. |
| tert-Butylbenzene | 98-06-6 | 0.5 | N.D. |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.5 | N.D. |
| sec-Butylbenzene | 135-98-8 | 0.5 | N.D. |
| 4-Isopropyltoluene | 99-87-6 | 0.5 | N.D. |
| 1,3-Dichlorobenzene | 541-73-1 | 0.5 | N.D. |
| 1,4-Dichlorobenzene | 106-46-7 | 0.5 | N.D. |
| n-Butylbenzene | 104-51-8 | 0.5 | N.D. |
| 1,2-Dichlorobenzene | 95-50-1 | 0.5 | N.D. |
| 1-2-Dibromo-2-CPA | 96-12-8 | 1.0 | N.D. |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.5 | N.D. |
| Hexachlorobutadiene | 87-68-3 | 0.5 | N.D. |
| Naphthalene | 91-20-3 | 0.5 | N.D. |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.5 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

| *Surrogate Recoveries* | *%* |
|---|---|
| *Dibromofluoromethane* | *114* |
| *Toluene-d8* | *99* |
| *4-Bromofluorobenzene* | *114* |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

***Montgomery Watson***
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

***Client Project ID:*** McDonnell Douglas
***Client Project #:*** 1206035-01090010

***Sample Description:*** Water, Trip Blank
***Laboratory Sample Number:*** 97041299
***Laboratory Reference #:*** MWI 8973

***Sampled:*** 04-24-97
***Received:*** 04-24-97
***Analyzed:*** 05-06-97
***Reported:*** 05-07-97

Volatile Organics by GC/MS (EPA 8260)

| ***ANALYTE*** | ***CAS NUMBER*** | ***DETECTION LIMIT (ug/l)*** | ***SAMPLE RESULT (ug/l)*** |
|---|---|---|---|
| Benzene | 71-43-2 | 0.5 | N.D. |
| Bromodichloromethane | 75-27-4 | 0.5 | N.D. |
| Bromoform | 75-25-2 | 0.5 | N.D. |
| Bromomethane | 74-83-9 | 1.0 | N.D. |
| Carbon Disulfide | 75-15-0 | 0.5 | N.D. |
| Carbon tetrachloride | 56-23-5 | 0.5 | N.D. |
| Chlorobenzene | 108-90-7 | 0.5 | N.D. |
| Chlorodibromomethane | 124-48-1 | 0.5 | N.D. |
| Chloroethane | 75-00-3 | 0.5 | N.D. |
| 2-Chloroethyl vinyl ether | 110-75-8 | 1.0 | N.D. |
| Chloroform | 67-66-3 | 0.5 | N.D. |
| Chloromethane | 74-87-3 | 0.5 | N.D. |
| 1,1-Dichloroethane | 75-35-3 | 0.5 | N.D. |
| 1,2-Dichloroethane | 107-06-2 | 0.5 | N.D. |
| 1,1-Dichloroethene | 75-35-4 | 0.5 | N.D. |
| Trans 1,2-Dichloroethene | 156-60-5 | 0.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | N.D. |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.5 | N.D. |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.5 | N.D. |
| Ethylbenzene | 100-41-4 | 0.5 | N.D. |
| Methylene chloride | 75-09-2 | 2.5 | N.D. |
| Styrene | 100-42-5 | 0.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.5 | N.D. |
| Tetrachloroethene | 127-18-4 | 0.5 | N.D. |
| Toluene | 108-88-3 | 0.5 | N.D. |
| 1,1,1-Trichloroethane | 71-55-6 | 0.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | N.D. |
| Trichloroethene | 79-01-6 | 0.5 | N.D. |
| Trichlorofluoromethane | 75-69-4 | 0.5 | N.D. |
| Vinyl acetate | 108-05-4 | 1.0 | N.D. |
| Vinyl chloride | 75-01-4 | 0.5 | N.D. |
| Total Xylenes | 1330-20-7 | 1.0 | N.D. |
| Dichlorofluoromethane | 75-71-8 | 0.5 | N.D. |
| cis-1-2,-Dichloroethane | 156-59-4 | 0.5 | N.D. |
| 2,2-Dichloropropane | 590-20-7 | 0.5 | N.D. |
| Bromochloromethane | 74-97-5 | 0.5 | N.D. |
| 1,1-Dichloropropene | 563-58-6 | 0.5 | N.D. |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | N.D. |
| Dibromomethane | 74-95-3 | 0.5 | N.D. |
| trans-1,3-Dichloropropane | 10061-02-6 | 0.5 | N.D. |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | N.D. |
| 1,2-Dibromoethane | 106-93-4 | 0.5 | N.D. |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Sample Description: Water, Trip Blank

Laboratory Sample Number: 97041299

Volatile Organics by GC/MS (EPA 8260)

| ANALYTE | CAS NUMBER | DETECTION LIMIT (ug/l) | SAMPLE RESULT (ug/l) |
|---|---|---|---|
| 1,3-Dichloropropane | 142-28-9 | 0.5 | N.D. |
| Dibromochloromethane | 124-48-1 | 0.5 | N.D. |
| Isopropylbenzene | 98-82-8 | 0.5 | N.D. |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.5 | N.D. |
| 1,2,3-Trichloropropane | 96-18-4 | 0.5 | N.D. |
| Bromobenzene | 108-86-1 | 0.5 | N.D. |
| n-Propylbenzene | 103-65-1 | 0.5 | N.D. |
| 2-Chlorotoluene | 95-49-8 | 0.5 | N.D. |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.5 | N.D. |
| 4-Chlorotoluene | 106-43-4 | 0.5 | N.D. |
| tert-Butylbenzene | 98-06-6 | 0.5 | N.D. |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.5 | N.D. |
| sec-Butylbenzene | 135-98-8 | 0.5 | N.D. |
| 4-Isopropyltoluene | 99-87-6 | 0.5 | N.D. |
| 1,3-Dichlorobenzene | 541-73-1 | 0.5 | N.D. |
| 1,4-Dichlorobenzene | 106-46-7 | 0.5 | N.D. |
| n-Butylbenzene | 104-51-8 | 0.5 | N.D. |
| 1,2-Dichlorobenzene | 95-50-1 | 0.5 | N.D. |
| 1-2-Dibromo-2-CPA | 96-12-8 | 1.0 | N.D. |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.5 | N.D. |
| Hexachlorobutadiene | 87-68-3 | 0.5 | N.D. |
| Naphthalene | 91-20-3 | 0.5 | N.D. |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.5 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

| *Surrogate Recoveries* | % |
|---|---|
| *Dibromofluoromethane* | *110* |
| *Toluene-d8* | *98* |
| *4-Bromofluorobenzene* | *114* |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

***Montgomery Watson***
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

***Client Project ID:*** McDonnell Douglas
***Client Project #:*** 1206035.01090010

***Sample Description:*** Water, Equip Blank
***Laboratory Sample #:*** 97041297
***Laboratory Reference #:*** MWI 8973

***Sampled :*** 04-24-97
***Received:*** 04-24-97
***Analyzed:*** 04-28-97
***Reported:*** 05-07-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT ug/l* | *SAMPLE RESULTS ug/l* |
|---|---|---|---|
| Acenaphthene | 83-32-9 | 5.0 | N.D. |
| Acenaphthylene | 208-96-8 | 5.0 | N.D. |
| Aniline | 62-53-3 | 5.0 | N.D. |
| Anthracene | 120-12-7 | 5.0 | N.D. |
| Benzidine | 92-87-5 | 5.0 | N.D. |
| Benzoic Acid | 65-85-0 | 50 | N.D. |
| Benzo(a)anthracene | 56-55-3 | 5.0 | N.D. |
| Benzo(b)fluoranthene | 205-99-2 | 25 | N.D. |
| Benzo(k)fluoranthene | 207-08-9 | 25 | N.D. |
| Benzo(g,h,i)perylene | 191-24-2 | 25 | N.D. |
| Benzo(a)pyrene | 50-32-8 | 25 | N.D. |
| Benzyl alcohol | 100-51-6 | 50 | N.D. |
| Bis(2-chloroethoxy)methane | 111-91-1 | 5.0 | N.D. |
| Bis(2-chloroethyl)ether | 111-44-4 | 5.0 | N.D. |
| Bis(2-chloroisopropyl)ether | 39638-32-9 | 5.0 | N.D. |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 3.0 | N.D. |
| 4-Bromophenyl phenyl ether | 101-55-3 | 5.0 | N.D. |
| Butyl benzyl phthalate | 85-68-7 | 5.0 | N.D. |
| 4-Chloroaniline | 106-47-8 | 5.0 | N.D. |
| 2-Chloronaphthalene | 91-58-7 | 5.0 | N.D. |
| 4-Chloro-3-methylphenol | 59-50-7 | 5.0 | N.D. |
| 2-Chlorophenol | 95-57-8 | 5.0 | N.D. |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 5.0 | N.D. |
| Chrysene | 218-0109 | 5.0 | N.D. |
| Dibenz(a,h)anthracene | 53-70-3 | 25 | N.D. |
| Dibenzofuran | 132-64-9 | 5.0 | N.D. |
| Di-N-butyl phthalate | 84-74-2 | 5.0 | N.D. |
| 1,3-Dichlorobenzene | 541-73-1 | 5.0 | N.D. |
| 1,4-Dichlorobenzene | 106-46-7 | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 95-50-1 | 5.0 | N.D. |
| 3,3-Dichlorobenzidine | 91-94-1 | 5.0 | N.D. |
| 2,4-Dichlorophenol | 120-83-2 | 5.0 | N.D. |
| Diethyl phthalate | 84-66-2 | 5.0 | N.D. |
| 2,4-Dimethylphenol | 105-67-9 | 5.0 | N.D. |
| Dimethyl phthalate | 131-11-3 | 5.0 | N.D. |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 50 | N.D. |
| 2,4-Dinitrophenol | 51-28-5 | 50 | N.D. |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270) (continued)

Sample Description: Water, Equip Blank
Laboratory Sample #: 97041297

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT ug/l* | *SAMPLE RESULTS ug/l* |
|---|---|---|---|
| 2,4-Dinitrotoluene | 121-14-2 | 5.0 | N.D. |
| 2,6-Dinitrotoluene | 606-20-2 | 5.0 | N.D. |
| Di-N-octyl phthalate | 117-84-0 | 25 | N.D. |
| Fluoranthene | 206-44-0 | 5.0 | N.D. |
| Fluorene | 86-73-7 | 5.0 | N.D. |
| Hexachlorobenzene | 118-74-1 | 5.0 | N.D. |
| Hexachlorobutadiene | 87-68-3 | 5.0 | N.D. |
| Hexachlorocyclopentadiene | 77-47-4 | 5.0 | N.D. |
| Hexachloroethane | 67-72-1 | 5.0 | N.D. |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 25 | N.D. |
| Isophorone | 78-59-1 | 5.0 | N.D. |
| 2-Methylnaphthalene | 91-57-6 | 5.0 | N.D. |
| 2-Methylphenol | 95-48-7 | 5.0 | N.D. |
| 4-Methylphenol | 106-44-5 | 5.0 | N.D. |
| Naphthalene | 91-20-3 | 50 | N.D. |
| 2-Nitroaniline | 88-74-4 | 50 | N.D. |
| 3-Nitroaniline | 99-09-2 | 50 | N.D. |
| 4-Nitroaniline | 100-01-6 | 5.0 | N.D. |
| Nitrobenzene | 98-95-3 | 5.0 | N.D. |
| 2-Nitrophenol | 88-75-5 | 5.0 | N.D. |
| 4-Nitrophenol | 100-02-7 | 50 | N.D. |
| N-Nitrosodiphenylamine | 86-30-6 | 5.0 | N.D. |
| N-Nitroso-di-N-propylamine | 621-64-7 | 5.0 | N.D. |
| N-Nitrosodimethylamine | 62-75-9 | 5.0 | N.D. |
| Pentachlorophenol | 87-86-5 | 50 | N.D. |
| Phenanthrene | 85-01-8 | 5.0 | N.D. |
| Phenol | 108-95-2 | 5.0 | N.D. |
| Pyrene | 129-00-0 | 5.0 | N.D. |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5.0 | N.D. |
| 2,4,5-Trichlorophenol | 95-95-4 | 5.0 | N.D. |
| 2,4,6-Trichlorophenol | 88-06-2 | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*Montgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035.01090010

*Sample Description:* Water, Rinsate Blank
*Laboratory Sample #:* 97041298
*Laboratory Reference #:* MWI 8973

*Sampled :* 04-24-97
*Received:* 04-24-97
*Analyzed:* 04-28-97
*Reported:* 05-07-97

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT ug/l* | *SAMPLE RESULTS ug/l* | |
|---|---|---|---|---|
| Acenaphthene | 83-32-9 | 5.0 | N.D. | |
| Acenaphthylene | 208-96-8 | 5.0 | N.D. | |
| Aniline | 62-53-3 | 5.0 | N.D. | |
| Anthracene | 120-12-7 | 5.0 | N.D. | |
| Benzidine | 92-87-5 | 5.0 | N.D. | |
| Benzoic Acid | 65-85-0 | 50 | N.D. | |
| Benzo(a)anthracene | 56-55-3 | 5.0 | N.D. | |
| Benzo(b)fluoranthene | 205-99-2 | 25 | N.D. | |
| Benzo(k)fluoranthene | 207-08-9 | 25 | N.D. | |
| Benzo(g,h,i)perylene | 191-24-2 | 25 | N.D. | |
| Benzo(a)pyrene | 50-32-8 | 25 | N.D. | |
| Benzyl alcohol | 100-51-6 | 50 | N.D. | |
| Bis(2-chloroethoxy)methane | 111-91-1 | 5.0 | N.D. | |
| Bis(2-chloroethyl)ether | 111-44-4 | 5.0 | N.D. | |
| Bis(2-chloroisopropyl)ether | 39638-32-9 | 5.0 | N.D. | |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 3.0 | 6.4 | <--- |
| 4-Bromophenyl phenyl ether | 101-55-3 | 5.0 | N.D. | |
| Butyl benzyl phthalate | 85-68-7 | 5.0 | N.D. | |
| 4-Chloroaniline | 106-47-8 | 5.0 | N.D. | |
| 2-Chloronaphthalene | 91-58-7 | 5.0 | N.D. | |
| 4-Chloro-3-methylphenol | 59-50-7 | 5.0 | N.D. | |
| 2-Chlorophenol | 95-57-8 | 5.0 | N.D. | |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 5.0 | N.D. | |
| Chrysene | 218-0109 | 5.0 | N.D. | |
| Dibenz(a,h)anthracene | 53-70-3 | 25 | N.D. | |
| Dibenzofuran | 132-64-9 | 5.0 | N.D. | |
| Di-N-butyl phthalate | 84-74-2 | 5.0 | N.D. | |
| 1,3-Dichlorobenzene | 541-73-1 | 5.0 | N.D. | |
| 1,4-Dichlorobenzene | 106-46-7 | 5.0 | N.D. | |
| 1,2-Dichlorobenzene | 95-50-1 | 5.0 | N.D. | |
| 3,3-Dichlorobenzidine | 91-94-1 | 5.0 | N.D. | |
| 2,4-Dichlorophenol | 120-83-2 | 5.0 | N.D. | |
| Diethyl phthalate | 84-66-2 | 5.0 | N.D. | |
| 2,4-Dimethylphenol | 105-67-9 | 5.0 | N.D. | |
| Dimethyl phthalate | 131-11-3 | 5.0 | N.D. | |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 50 | N.D. | |
| 2,4-Dinitrophenol | 51-28-5 | 50 | N.D. | |

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270) (continued)

Sample Description: Water, Rinsate Blank
Laboratory Sample #: 97041298

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT ug/l* | *SAMPLE RESULTS ug/l* |
|---|---|---|---|
| 2,4-Dinitrotoluene | 121-14-2 | 5.0 | N.D. |
| 2,6-Dinitrotoluene | 606-20-2 | 5.0 | N.D. |
| Di-N-octyl phthalate | 117-84-0 | 25 | N.D. |
| Fluoranthene | 206-44-0 | 5.0 | N.D. |
| Fluorene | 86-73-7 | 5.0 | N.D. |
| Hexachlorobenzene | 118-74-1 | 5.0 | N.D. |
| Hexachlorobutadiene | 87-68-3 | 5.0 | N.D. |
| Hexachlorocyclopentadiene | 77-47-4 | 5.0 | N.D. |
| Hexachloroethane | 67-72-1 | 5.0 | N.D. |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 25 | N.D. |
| Isophorone | 78-59-1 | 5.0 | N.D. |
| 2-Methylnaphthalene | 91-57-6 | 5.0 | N.D. |
| 2-Methylphenol | 95-48-7 | 5.0 | N.D. |
| 4-Methylphenol | 106-44-5 | 5.0 | N.D. |
| hthalene | 91-20-3 | 50 | N.D. |
| 2-Nitroaniline | 88-74-4 | 50 | N.D. |
| 3-Nitroaniline | 99-09-2 | 50 | N.D. |
| 4-Nitroaniline | 100-01-6 | 5.0 | N.D. |
| Nitrobenzene | 98-95-3 | 5.0 | N.D. |
| 2-Nitrophenol | 88-75-5 | 5.0 | N.D. |
| 4-Nitrophenol | 100-02-7 | 50 | N.D. |
| N-Nitrosodiphenylamine | 86-30-6 | 5.0 | N.D. |
| N-Nitroso-di-N-propylamine | 621-64-7 | 5.0 | N.D. |
| N-Nitrosodimethylamine | 62-75-9 | 5.0 | N.D. |
| Pentachlorophenol | 87-86-5 | 50 | N.D. |
| Phenanthrene | 85-01-8 | 5.0 | N.D. |
| Phenol | 108-95-2 | 5.0 | N.D. |
| Pyrene | 129-00-0 | 5.0 | N.D. |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5.0 | N.D. |
| 2,4,5-Trichlorophenol | 95-95-4 | 5.0 | N.D. |
| 2,4,6-Trichlorophenol | 88-06-2 | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*k Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*Montgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035.01090010

*Sample Description:* Water, Equip Blank

*Laboratory Sample Number:* 97041297
*Laboratory Reference #:* MWI 8938

*Sampled:* 04-24-97
*Received:* 04-24-97
*Analyzed:* 04-28-97
*Reported:* 05-07-97

PCB'S (EPA 8080)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT (ug/l)* | *SAMPLE RESULTS (ug/l)* |
|---|---|---|---|
| PCB-1016 | 12674-11-2 | 5.0 | N.D. |
| PCB-1221 | 11104-28-2 | 5.0 | N.D. |
| PCB-1232 | 11141-16-5 | 5.0 | N.D. |
| PCB-1242 | 53469-21-9 | 5.0 | N.D. |
| PCB-1248 | 12672-29-6 | 5.0 | N.D. |
| PCB-1254 | 11097-69-1 | 5.0 | N.D. |
| PCB-1260 | 11096-82-5 | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*Montgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035.01090010

*Sample Description:* Water, Rinsate Blank

*Laboratory Sample Number:* 97041298
*Laboratory Reference #:* MWI 8938

*Sampled:* 04-24-97
*Received:* 04-24-97
*Analyzed:* 04-28-97
*Reported:* 05-07-97

PCB'S (EPA 8080)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT (ug/l)* | *SAMPLE RESULTS (ug/l)* |
|---|---|---|---|
| PCB-1016 | 12674-11-2 | 5.0 | N.D. |
| PCB-1221 | 11104-28-2 | 5.0 | N.D. |
| PCB-1232 | 11141-16-5 | 5.0 | N.D. |
| PCB-1242 | 53469-21-9 | 5.0 | N.D. |
| PCB-1248 | 12672-29-6 | 5.0 | N.D. |
| PCB-1254 | 11097-69-1 | 5.0 | N.D. |
| PCB-1260 | 11096-82-5 | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

***Montgomery Watson***
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

***Client Project ID:*** McDonnell Douglas
***Client Project #:*** 1206035.01090010

***Sample Description:*** Water, Equip Blank

***Laboratory Sample Number:*** 97041297
***Laboratory Reference #:*** MWI 8973

***Sampled:*** 04-24-97
***Received:*** 04-24-97
***Analyzed:*** 04-28-97
***Reported:*** 05-07-97

ORGANOCHLORINE PESTICIDES (EPA 8080)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT (ug/l)* | *SAMPLE RESULTS (ug/l)* |
|---|---|---|---|
| Aldrin | 309-00-2 | 0.1 | N.D. |
| alpha-BHC | 319-84-6 | 0.2 | N.D. |
| beta-BHC | 319-85-7 | 0.2 | N.D. |
| delta-BHC | 319-86-8 | 0.2 | N.D. |
| gamma-BHC (Lindane) | 58-89-9 | 0.2 | N.D. |
| Chlordane | 57-74-9 | 0.2 | N.D. |
| 4,4'-DDD | 72-54-8 | 0.5 | N.D. |
| 4,4'-DDE | 72-55-9 | 0.1 | N.D. |
| 4,4'-DDT | 50-29-3 | 0.1 | N.D. |
| Dieldrin | 60-57-1 | 0.5 | N.D. |
| Endosulfan I | 959-98-8 | 0.5 | N.D. |
| Endosulfan II | 33213-65-9 | 0.5 | N.D. |
| Endosulfan sulfate | 1031-07-8 | 0.5 | N.D. |
| Endrin | 72-20-8 | 0.02 | N.D. |
| Endrin aldehyde | 7421-93-4 | 0.2 | N.D. |
| Heptachlor | 76-44-8 | 0.1 | N.D. |
| Heptachlor epoxide | 1024-57-3 | 0.2 | N.D. |
| Methoxychlor | 72-43-5 | 9.0 | N.D. |
| Toxaphene | 8001-35-2 | 0.5 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

***ORANGE COAST ANALYTICAL***

***Mark Noorani***
***Laboratory Director***

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

*Montgomery Watson*
ATTN: Mr. Fred Strauss
250 N. Madison Ave.
Pasadena, CA 91101

*Client Project ID:* McDonnell Douglas
*Client Project #:* 1206035.01090010

*Sample Description:* Water, Rinsate Blank

*Laboratory Sample Number:* 97041298
*Laboratory Reference #:* MWI 8973

*Sampled:* 04-24-97
*Received:* 04-24-97
*Analyzed:* 04-28-97
*Reported:* 05-07-97

ORGANOCHLORINE PESTICIDES (EPA 8080)

| *ANALYTE* | *CAS NUMBER* | *DETECTION LIMIT (ug/l)* | *SAMPLE RESULTS (ug/l)* |
|---|---|---|---|
| Aldrin | 309-00-2 | 0.1 | N.D. |
| alpha-BHC | 319-84-6 | 0.2 | N.D. |
| beta-BHC | 319-85-7 | 0.2 | N.D. |
| delta-BHC | 319-86-8 | 0.2 | N.D. |
| gamma-BHC (Lindane) | 58-89-9 | 0.2 | N.D. |
| Chlordane | 57-74-9 | 0.2 | N.D. |
| 4,4'-DDD | 72-54-8 | 0.5 | N.D. |
| 4,4'-DDE | 72-55-9 | 0.1 | N.D. |
| 4,4'-DDT | 50-29-3 | 0.1 | N.D. |
| Dieldrin | 60-57-1 | 0.5 | N.D. |
| Endosulfan I | 959-98-8 | 0.5 | N.D. |
| Endosulfan II | 33213-65-9 | 0.5 | N.D. |
| Endosulfan sulfate | 1031-07-8 | 0.5 | N.D. |
| Endrin | 72-20-8 | 0.02 | N.D. |
| Endrin aldehyde | 7421-93-4 | 0.2 | N.D. |
| Heptachlor | 76-44-8 | 0.1 | N.D. |
| Heptachlor epoxide | 1024-57-3 | 0.2 | N.D. |
| Methoxychlor | 72-43-5 | 9.0 | N.D. |
| Toxaphene | 8001-35-2 | 0.5 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

*ORANGE COAST ANALYTICAL*

*Mark Noorani*
*Laboratory Director*

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 04/25/97
Laboratory Sample No : 97041014
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppm) | SP (ppm) | MS (ppm) | MSD (ppm) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| Hydrocarbons | 0.0 | 100 | 116 | 118 | 116 | 118 | 2 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Total Recoverable Petroleum Hydrocarbons (EPA 418.1)

Date of Analysis : 04/29/97
Laboratory Sample No : OCA 100
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppm) | SP (ppm) | MS (ppm) | MSD (ppm) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| Hydrocarbons | 0.0 | 2.5 | 2.0 | 2.2 | 80 | 88 | 10 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 04/28/97
Laboratory Sample No : OCA 100
Laboratory Reference No : MWI 8973

| Analyte | R1 (ng) | SP (ng) | MS (ng) | MSD (ng) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0 | 50 | 39 | 39 | 78 | 78 | 0 |
| n-Nitroso-di-n-propylamine | 0.0 | 50 | 42 | 49 | 84 | 98 | 15 |
| 1,2,4-Trichlorobenzene | 0.0 | 50 | 39 | 39 | 78 | 78 | 0 |
| Acenaphthene | 0.0 | 50 | 47 | 46 | 94 | 92 | 2 |
| Pyrene | 0.0 | 50 | 43 | 41 | 86 | 82 | 5 |
| Pentachlorophenol | 0.0 | 100 | 72 | 76 | 72 | 76 | 5 |
| 4-Chloro-3-Methylphenol | 0.0 | 100 | 56 | 60 | 56 | 60 | 7 |
| 2-Chlorophenol | 0.0 | 100 | 77 | 79 | 77 | 79 | 3 |
| Phenol | 0.0 | 100 | 25 | 27 | 25 | 27 | 8 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 04/30/97
Laboratory Sample No : 97041323
Laboratory Reference No : MWI 8973

| Analyte | R1 (ng) | SP (ng) | MS (ng) | MSD (ng) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.0 | 50 | 44 | 45 | 88 | 90 | 2 |
| n-Nitroso-di-n-propylamine | 0.0 | 50 | 50 | 53 | 100 | 106 | 6 |
| 1,2,4-Trichlorobenzene | 0.0 | 50 | 42 | 44 | 84 | 88 | 5 |
| Acenaphthene | 0.0 | 50 | 48 | 49 | 96 | 98 | 2 |
| Pyrene | 0.0 | 50 | 24 | 25 | 48 | 50 | 4 |
| Pentachlorophenol | 0.0 | 100 | 72 | 80 | 72 | 80 | 11 |
| 4-Chloro-3-Methylphenol | 0.0 | 100 | 75 | 78 | 75 | 78 | 4 |
| 2-Chlorophenol | 0.0 | 100 | 82 | 83 | 82 | 83 | 1 |
| Phenol | 0.0 | 100 | 70 | 73 | 70 | 73 | 4 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 05/06/97
Laboratory Sample No : 97041299
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppb) | SP (ppb) | MS (ppb) | MSD (ppb) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0 | 20 | 17 | 17 | 85 | 85 | 0 |
| 1,1-Dichloroethene | 0.0 | 20 | 14 | 14 | 70 | 70 | 0 |
| Trichloroethene | 0.0 | 20 | 18 | 19 | 90 | 95 | 5 |
| Toluene | 0.0 | 20 | 18 | 18 | 90 | 90 | 0 |
| Chlorobenzene | 0.0 | 20 | 16 | 18 | 80 | 90 | 12 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 04/29/97
Laboratory Sample No : 97041020
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppb) | SP (ppb) | MS (ppb) | MSD (ppb) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0 | 50 | 45 | 42 | 90 | 84 | 7 |
| 1,1-Dichloroethene | 0.0 | 50 | 44 | 39 | 88 | 78 | 12 |
| Trichloroethene | 0.0 | 50 | 52 | 47 | 104 | 94 | 10 |
| Toluene | 0.0 | 50 | 47 | 44 | 94 | 88 | 7 |
| Chlorobenzene | 0.0 | 50 | 44 | 42 | 88 | 84 | 5 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Metals

Date of Analysis : 05/06/97
Laboratory Sample No : 97041306
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppm) | SP (ppm) | MS (ppm) | MSD (ppm) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| Antimony | 0.00 | 30.00 | 26.00 | 26.00 | 87 | 87 | 0 |
| Arsenic | 0.00 | 10.00 | 9.10 | 8.20 | 91 | 82 | 10 |
| Barium | 3.60 | 10.00 | 11.80 | 12.40 | 82 | 88 | 5 |
| Beryllium | 0.00 | 1.00 | 0.99 | 0.93 | 99 | 93 | 6 |
| Cadmium | 0.00 | 1.00 | 1.04 | 1.04 | 104 | 104 | 0 |
| Chromium (Total ) | 2.50 | 5.00 | 7.40 | 7.50 | 98 | 100 | 1 |
| Chromium ( VI ) | 0.00 | 1.00 | 0.82 | 0.95 | 82 | 95 | 15 |
| Cobalt | 0.44 | 1.00 | 1.39 | 1.32 | 95 | 88 | 5 |
| Copper | 0.80 | 1.00 | 1.70 | 1.61 | 90 | 81 | 5 |
| Lead | 0.00 | 10.00 | 8.60 | 8.70 | 86 | 87 | 1 |
| Mercury | 0.000 | 0.020 | 0.017 | 0.019 | 85 | 95 | 11 |
| Molybdenum | 0.00 | 10.00 | 8.30 | 8.40 | 83 | 84 | 1 |
| Nickel | 1.10 | 5.00 | 5.70 | 5.80 | 92 | 94 | 2 |
| Selenium | 0.00 | 10.00 | 9.00 | 8.50 | 90 | 85 | 6 |
| Silver | 0.00 | 5.00 | 4.80 | 4.90 | 96 | 98 | 2 |
| Thallium | 0.00 | 30.00 | 25.00 | 26.00 | 83 | 87 | 4 |
| Vanadium | 1.90 | 5.00 | 6.20 | 6.20 | 86 | 86 | 0 |
| Zinc | 2.60 | 5.00 | 7.70 | 7.10 | 102 | 90 | 8 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Metals

Date of Analysis : 05/02/97
Laboratory Sample No : 97041297
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppm) | SP (ppm) | MS (ppm) | MSD (ppm) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| Antimony | 0.000 | 3.000 | 3.000 | 3.600 | 100 | 120 | 18 |
| Arsenic | 0.000 | 1.000 | 0.910 | 0.850 | 91 | 85 | 7 |
| Barium | 0.000 | 0.100 | 0.103 | 0.113 | 103 | 113 | 9 |
| Beryllium | 0.000 | 0.100 | 0.086 | 0.085 | 86 | 85 | 1 |
| Cadmium | 0.000 | 0.100 | 0.100 | 0.096 | 100 | 96 | 4 |
| Chromium (Total ) | 0.000 | 0.100 | 0.088 | 0.084 | 88 | 84 | 5 |
| Chromium ( VI ) | 0.000 | 0.500 | 0.440 | 0.410 | 88 | 82 | 7 |
| Cobalt | 0.000 | 0.100 | 0.120 | 0.105 | 120 | 105 | 13 |
| Copper | 0.000 | 0.100 | 0.088 | 0.089 | 88 | 89 | 1 |
| Lead | 0.000 | 1.000 | 1.100 | 1.130 | 110 | 113 | 3 |
| Mercury | 0.000 | 0.020 | 0.023 | 0.020 | 115 | 100 | 14 |
| Molybdenum | 0.000 | 1.000 | 1.100 | 0.960 | 110 | 96 | 14 |
| Nickel | 0.000 | 0.500 | 0.470 | 0.460 | 94 | 92 | 2 |
| Selenium | 0.000 | 1.000 | 1.030 | 0.940 | 103 | 94 | 9 |
| Silver | 0.000 | 0.500 | 0.460 | 0.480 | 92 | 96 | 4 |
| Thallium | 0.000 | 3.000 | 2.700 | 2.800 | 90 | 93 | 4 |
| Vanadium | 0.000 | 0.500 | 0.440 | 0.440 | 88 | 88 | 0 |
| Zinc | 0.000 | 0.100 | 0.115 | 0.120 | 115 | 120 | 4 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

Mark Noorani

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

## QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8080)

Date of Analysis : 04/28/97
Laboratory Sample No : OCA 100
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppb) | SP (ppb) | MS (ppb) | MSD (ppb) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 0.0 | 1.0 | 1.1 | 1.0 | 110 | 100 | 10 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

# QC DATA REPORT

Analysis : PCB 'S ( EPA 8080 )

Date of Analysis : 04/28/97
Laboratory Sample No : OCA 100
Laboratory Reference No : MWI 8973

| Analyte | R1 (ppb) | SP (ppb) | MS (ppb) | MSD (ppb) | PR1 % | PR2 % | RPD % |
|---|---|---|---|---|---|---|---|
| PCB-1260 | 0.0 | 20.0 | 11.0 | 9.2 | 55 | 46 | 18 |

Definition of Terms :

| | |
|---|---|
| R1 | Results Of First Analysis |
| SP | Spike Concentration Added to Sample |
| MS | Matrix Spike Results |
| MSD | Matrix Spike Duplicate Results |
| PR1 | Percent Recovery Of MS: {(MS-R1) / SP} x100 |
| PR2 | Percent Recovery Of MSD: {(MSD-R1) / SP} x 100 |
| RPD | Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2 |

ORANGE COAST ANALYTICAL

Mark Noorani

MARK NOORANI
Laboratory Director

**ORANGE COAST ANALYTICAL, INC.**
3002 Dow, Suite 532
Tustin, CA 92680
(714) 832-0064, Fax (714) 832-0067

# Analysis Request and Chain of Custody Record

Lab Job No: _____
Page 1 of 1

REQUIRED TAT: 24 hr TAT on Soil TRPH; Standard TAT otherwise

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| COMPANY: | Montgomery Watson | PROJECT NAME: | Mc Donnell Douglas |
| SEND REPORT TO: | Fred Strauss | NUMBER: | 1206035.01090010 |
| ADDRESS: | 250 N. Madison Ave. Pasadena, CA 91101 | LOCATION: | C-6 Facility - Bldg. 37 Area |
| | | ADDRESS: | 19503 S. Normandie Ave. Los Angeles, CA |
| PHONE: | (818) 568-6582 FAX: (818) 796-5941 | SAMPLED BY: | AWN/IV |

ANALYSIS/METHOD REQUEST

| SAMPLE ID | NO. OF CONTAINERS | SAMPLE DATE | SAMPLE TIME | SAMPLE MATRIX | CONTAINER TYPE | PRES. | TRPH 418.1 | Title 22 Metals | VOCs 8260 | SVOCs 8270 | PCBs 8080 | Pesticides 8080 | | | REMARKS/PRECAUTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B37-RE4-SP52 | 2 | 4/24/97 | 1005 | Soil | 2"x6" Sleeve | ICE | X | X | X | X | | | | | |
| Equipment Blank | 7 | ↓ | 1530 | Water | 4 amber 1 poly 2 VOAs | HNO3 HCl | X | X | X | X | X | X | | | |
| Rinsate Blank | 7 | ↓ | 1545 | ↓ | ↓ | ↓ | X | X | X | X | X | X | | | |
| Trip Blank | 2 | ↓ | — | ↓ | 2 VOAs | HCl | | | X | | | | | | |

Total No. of Samples: 4

Method of Shipment: 1 cooler via Orange Coast Courier

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| Adam W Nenig | 4/24/97 1700 | | |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |
| Relinquished By: | Date/Time: | Received For Lab By: [signature] | Date/Time: 4/24/97 17:00 |

Reporting Format: (check)
NORMAL _____ S.D. HMMD _____
RWQCB _____ OTHER _____

Sample Integrity: (check)
Intact _____ on ice _____

All samples remain the property of the client who is responsible for sal. A disposal fee may be imposed if client fails to pickup samples.

BOE-C6-0117573