

TABLE 6.1  
SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

|                       |                    |             |           |  |
|-----------------------|--------------------|-------------|-----------|--|
| Location              | CLEANING SHED AREA |             |           |  |
| Consultant            | CH2M HILL          | CH2M HILL   | CH2M HILL |  |
| Sample Location       | TP44               | TP44        | TP44      |  |
| Sample Depth (metres) | 0.20-0.30          | 0.2-0.3 Dup | 2.00-2.10 |  |

| Analyte                | Units | LOR  | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station<br>Sites (1994) |      |      |    |
|------------------------|-------|------|----------------------------------------|-----------------------------------------------------------------------------------|------|------|----|
| <b>HEAVY METALS</b>    |       |      |                                        |                                                                                   |      |      |    |
| Arsenic                | mg/kg | 5    | 500                                    |                                                                                   | 17   | 9    | nd |
| Cadmium                | mg/kg | 0.5  | 100                                    |                                                                                   | 0.7  | 1    | nd |
| Chromium               | mg/kg | 5    | 500                                    |                                                                                   | 8    | 9    | 18 |
| Copper                 | mg/kg | 5    | 5000                                   |                                                                                   | 37   | 67   | 10 |
| Nickel                 | mg/kg | 2    | 3000                                   |                                                                                   | 16   | 18   | 2  |
| Lead                   | mg/kg | 5    | 1500                                   | 300                                                                               | 620  | 520  | 17 |
| Zinc                   | mg/kg | 5    | 35000                                  |                                                                                   | 230  | 320  | 39 |
| Mercury                | mg/kg | 0.05 | 75                                     |                                                                                   | 0.29 | 0.19 | nd |
| Total Cyanide          | mg/kg | 0.5  | 2500                                   |                                                                                   | na   | na   | na |
| <b>VOCs</b>            |       |      |                                        |                                                                                   |      |      |    |
| Benzene                | mg/kg | 0.5  |                                        | 1                                                                                 | na   | na   | na |
| Bromobenzene           | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Bromochloromethane     | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Bromodichloromethane   | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Bromoform              | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Bromomethane           | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| n-Butylbenzene         | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| sec-Butylbenzene       | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| tert-Butylbenzene      | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Carbon Tetrachloride   | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| cis-1,2-Dichloroethene | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Chlorobenzene          | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Chloroethane           | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Chloroform             | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| Chloromethane          | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |
| 2-Chlorotoluene        | mg/kg | 1    |                                        |                                                                                   | na   | na   | na |

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| Consultant            | CH2M HILL          | CH2M HILL   | CH2M HILL |
| Sample Location       | TP44               | TP44        | TP44      |
| Sample Depth (metres) | 0.20-0.30          | 0.2-0.3 Dup | 2.00-2.10 |

| Analyte                     | Units | LOR | NEHF - Level F | NSW EPA                                                       |
|-----------------------------|-------|-----|----------------|---------------------------------------------------------------|
|                             |       |     | Monographs     | Guidelines for the Assessment of Service Station Sites (1994) |
| 4-Chlorotoluene             | mg/kg | 1   |                | na                                                            |
| Dibromochloromethane        | mg/kg | 1   |                | na                                                            |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1   |                | na                                                            |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1   |                | na                                                            |
| Dibromomethane              | mg/kg | 1   |                | na                                                            |
| 1,2-Dichlorobenzene         | mg/kg | 1   |                | na                                                            |
| 1,3-Dichlorobenzene         | mg/kg | 1   |                | na                                                            |
| 1,4-Dichlorobenzene         | mg/kg | 1   |                | na                                                            |
| Dichlorodifluoromethane     | mg/kg | 1   |                | na                                                            |
| 1,1-Dichloroethene          | mg/kg | 1   |                | na                                                            |
| 1,2-Dichloroethane          | mg/kg | 1   |                | na                                                            |
| 1,1-Dichloroethane          | mg/kg | 1   |                | na                                                            |
| cis-1,2-Dichloroethene      | mg/kg | 1   |                | na                                                            |
| trans-1,2-Dichloroethene    | mg/kg | 1   |                | na                                                            |
| 1,2-Dichloropropane         | mg/kg | 1   |                | na                                                            |
| 1,3-Dichloropropane         | mg/kg | 1   |                | na                                                            |
| 2,2-Dichloropropane         | mg/kg | 1   |                | na                                                            |
| 1,1-Dichloropropylene       | mg/kg | 1   |                | na                                                            |
| cis-1,3-Dichloropropylene   | mg/kg | 1   |                | na                                                            |
| trans-1,3-Dichloropropylene | mg/kg | 1   |                | na                                                            |
| Ethylbenzene                | mg/kg | 1   |                | 3.1                                                           |
| Hexachlorobutadiene         | mg/kg | 1   |                | na                                                            |
| Isopropylene                | mg/kg | 1   |                | na                                                            |
| p-Isopropyltoluene          | mg/kg | 1   |                | na                                                            |
| Methylene chloride          | mg/kg | 1   |                | na                                                            |
| Naphthalene                 | mg/kg | 1   |                | na                                                            |
| n-Propylbenzene             | mg/kg | 1   |                | na                                                            |

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| Sample Location       | TP44               | TP44        | TP44      |
| Sample Depth (metres) | 0.20-0.30          | 0.2-0.3 Dup | 2.00-2.10 |

| Analyte                    | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station<br>Sites (1994) |    |    |    |
|----------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|----|----|----|
|                            |       |     |                                        |                                                                                   | na | na | na |
| Styrene                    | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.1.1.2- Tetrachloroethane | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.1.2.2- Tetrachloroethane | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| Tetrachloroethene          | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| Toluene                    | mg/kg | 1   |                                        | 1.4                                                                               | na | na | na |
| 1.2.3-Trichlorobenzene     | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.2.4-Trichlorobenzene     | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.1.1-Trichloroethane      | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.1.2-Trichloroethane      | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| Trichloroethene            | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| Trichlorofluoromethane     | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.2.3-Trichloropropane     | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.2.4-Trimethylbenzene     | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| 1.3.5-Trimethylbenzene     | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| Vinyl chloride             | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| ortho-Xylene               | mg/kg | 1   |                                        |                                                                                   | na | na | na |
| meta- & para-Xylene        | mg/kg | 1   |                                        | 14                                                                                | na | na | na |
| TPH                        |       |     |                                        |                                                                                   |    |    |    |
| C6-C9                      | mg/kg | 10  |                                        | 65                                                                                | na | na | na |
| C10-C14                    | mg/kg | 10  |                                        |                                                                                   | na | na | na |
| C15-C28                    | mg/kg | 50  |                                        |                                                                                   | na | na | na |
| C29-C36                    | mg/kg | 50  |                                        |                                                                                   | na | na | na |
| Total C10-C36              | mg/kg |     |                                        | 1000                                                                              | na | na | na |
| BTEX                       |       |     |                                        |                                                                                   |    |    |    |
| Benzene                    | mg/kg | 0.5 |                                        | 1                                                                                 | 15 | 18 | nd |
| Toluene                    | mg/kg | 1   |                                        | 1.4                                                                               | 16 | 20 | nd |
| Ethylbenzene               | mg/kg | 1   |                                        | 3.1                                                                               | nd | nd | nd |

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| Sample Location       | TP44               | TP44        | TP44      |  |
| Sample Depth (metres) | 0.20-0.30          | 0.2-0.3 Dup | 2.00-2.10 |  |

| Analyte                         | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station<br>Sites (1994) |        |      |    |
|---------------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|--------|------|----|
|                                 |       |     |                                        |                                                                                   | 10     | 15   | nd |
| Total Xylenes                   | mg/kg | 3   |                                        | 14                                                                                |        |      |    |
| <b>PAHs</b>                     |       |     |                                        |                                                                                   |        |      |    |
| Naphthalene                     | mg/kg | 0.5 |                                        |                                                                                   | 190    | 150  | nd |
| Acenaphthylene                  | mg/kg | 0.5 |                                        |                                                                                   | 58     | 100  | nd |
| Acenaphthene                    | mg/kg | 0.5 |                                        |                                                                                   | 9.4    | 16   | nd |
| Fluorene                        | mg/kg | 0.5 |                                        |                                                                                   | 35     | 74   | nd |
| Phenanthrene                    | mg/kg | 0.5 |                                        |                                                                                   | 400    | 530  | nd |
| Anthracene                      | mg/kg | 0.5 |                                        |                                                                                   | 100    | 130  | nd |
| Fluoranthene                    | mg/kg | 0.5 |                                        |                                                                                   | 360    | 470  | nd |
| Pyrene                          | mg/kg | 0.5 |                                        |                                                                                   | 450    | 550  | nd |
| Benzo(a)anthracene              | mg/kg | 0.5 |                                        |                                                                                   | 200    | 270  | nd |
| Chrysene                        | mg/kg | 0.5 |                                        |                                                                                   | 150    | 200  | nd |
| Benzo(b)&(k)fluoranthene        | mg/kg | 1   |                                        |                                                                                   | 200    | 300  | nd |
| Benzo(a)pyrene                  | mg/kg | 0.5 | 5                                      | 1                                                                                 | 150    | 250  | nd |
| Indeno(1,2,3-cd)pyrene          | mg/kg | 0.5 |                                        |                                                                                   | 90     | 97   | nd |
| Dibenz(a,h)anthracene           | mg/kg | 0.5 |                                        |                                                                                   | 23     | 18   | nd |
| Benzo(g,h,i)perylene            | mg/kg | 0.5 |                                        |                                                                                   | 57     | 66   | nd |
| Total PAHs                      | mg/kg |     | 100                                    | 20                                                                                | 2472.4 | 3200 | 0  |
| <b>Phenols</b>                  |       |     |                                        |                                                                                   |        |      |    |
| Phenol                          | mg/kg | 0.5 | 42500                                  |                                                                                   | 19     | na   | na |
| 2-Chlorophenol                  | mg/kg | 0.5 |                                        |                                                                                   | nd*    | na   | na |
| 2-Methylphenol                  | mg/kg | 0.5 |                                        |                                                                                   | 13     | na   | na |
| 3-Methylphenol & 4-Methylphenol | mg/kg | 0.5 |                                        |                                                                                   | 32     | na   | na |
| 2-Nitrophenol                   | mg/kg | 0.5 |                                        |                                                                                   | nd*    | na   | na |
| 2,4-Dimethylphenol              | mg/kg | 0.5 |                                        |                                                                                   | 10     | na   | na |
| 2,4-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | nd*    | na   | na |
| 2,6-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | nd*    | na   | na |

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| Consultant            | CH2M HILL          | CH2M HILL   | CH2M HILL |  |
| Sample Location       | TP44               | TP44        | TP44      |  |
| Sample Depth (metres) | 0.20-0.30          | 0.2-0.3 Dup | 2.00-2.10 |  |

| Analyte                      | Units | LOR | NEHF - Level F    | NSW EPA                                                       |
|------------------------------|-------|-----|-------------------|---------------------------------------------------------------|
|                              |       |     | Monographs (1996) | Guidelines for the Assessment of Service Station Sites (1994) |
| 4-Chloro-3-methylphenol      | mg/kg | 0.5 |                   | nd*                                                           |
| 2,4,5-Trichlorophenol        | mg/kg | 0.5 |                   | nd*                                                           |
| 2,4,6-Trichlorophenol        | mg/kg | 0.5 |                   | nd*                                                           |
| 2,4-Dinitrophenol            | mg/kg | 2   |                   | nd*                                                           |
| 4-Nitrophenol                | mg/kg | 1   |                   | nd*                                                           |
| 2,3,4,6-Tetrachlorophenol    | mg/kg | 1   |                   | nd*                                                           |
| 4,6-Dinitro-2-methylphenol   | mg/kg | 2   |                   | nd*                                                           |
| Pentachlorophenol            | mg/kg | 1   |                   | nd*                                                           |
| 4,6-Dinitro-2-sec-butyphenol | mg/kg | 2   |                   | nd*                                                           |
| Total Phenols                | mg/kg |     |                   | 74                                                            |
| OCP's                        |       |     |                   |                                                               |
| TCDF                         | mg/kg | 0.1 |                   | na                                                            |
| alpha-BHC                    | mg/kg | 0.1 |                   | na                                                            |
| gamma-BHC                    | mg/kg | 0.1 |                   | na                                                            |
| Heptachlor                   | mg/kg | 0.1 | 50                | na                                                            |
| Aldrin                       | mg/kg | 0.1 |                   | na                                                            |
| Dieldrin                     | mg/kg | 0.1 | 50                | na                                                            |
| beta-BHC                     | mg/kg | 0.1 |                   | na                                                            |
| delta-BHC                    | mg/kg | 0.1 |                   | na                                                            |
| Oxychlordane                 | mg/kg | 0.1 |                   | na                                                            |
| Heptachlor epoxide           | mg/kg | 0.1 |                   | na                                                            |
| Endosulphan I                | mg/kg | 0.1 |                   | na                                                            |
| Chlordane-trans              | mg/kg | 0.1 | 250               | na                                                            |
| Chlordane-cis                | mg/kg | 0.1 |                   | na                                                            |
| trans-Nonachlor              | mg/kg | 0.1 |                   | na                                                            |
| 4,4'-DDE                     | mg/kg | 0.1 |                   | na                                                            |
| Endrin                       | mg/kg | 0.1 |                   | na                                                            |

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| Location              | CLEANING SHED AREA |             |           |           |
| Consultant            | CH2M HILL          | CH2M HILL   | CH2M HILL | CH2M HILL |
| Sample Location       | TP44               | TP44        | TP44      | TP44      |
| Sample Depth (metres) | 0.20-0.30          | 0.2-0.3 Dup | 2.00-2.10 |           |

| Analyte              | Units | LOR | NEHF - Level F | NSW EPA                                                       |    |
|----------------------|-------|-----|----------------|---------------------------------------------------------------|----|
|                      |       |     | Monographs     | Guidelines for the Assessment of Service Station Sites (1994) |    |
| 4,4'-DDD             | mg/kg | 0.1 |                | na                                                            | na |
| Endosulphan II       | mg/kg | 0.1 |                | na                                                            | na |
| 4,4'-DDT             | mg/kg | 0.1 | 1000           | na                                                            | na |
| Endosulphan sulphate | mg/kg | 0.1 |                | na                                                            | na |
| Methoxychlor         | mg/kg | 0.1 |                | na                                                            | na |
| <b>PCBs</b>          |       |     |                |                                                               |    |
| Arochlor 1016        | mg/kg | 1   |                | na                                                            | na |
| Arochlor 1221        | mg/kg | 1   |                | na                                                            | na |
| Arochlor 1232        | mg/kg | 1   |                | na                                                            | na |
| Arochlor 1242        | mg/kg | 1   |                | na                                                            | na |
| Arochlor 1248        | mg/kg | 1   |                | na                                                            | na |
| Arochlor 1254        | mg/kg | 1   |                | na                                                            | na |
| Arochlor 1260        | mg/kg | 1   |                | na                                                            | na |
| <b>Total PCBs</b>    |       |     | 50             | na                                                            | na |

NOTE:

|                                                                                      |
|--------------------------------------------------------------------------------------|
| <b>Exceeds NEHF- Level F (1996)</b>                                                  |
| <b>Exceeds NSW EPA Guidelines for the Assessment of Service Station Sites (1995)</b> |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
\* = sample required dilution

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.50-0.60<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>2.00-2.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.20-0.30<br>Fill |
|-----------------------------|-------|------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                  |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Location             |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                     | Units | LOR  |                                                         |                                                         |                                                         |                                                         |                                                         |
| <b>HEAVY METALS</b>         |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Arsenic                     | mg/kg | 5    | 19                                                      | 8                                                       | 15                                                      | 21                                                      | 7                                                       |
| Cadmium                     | mg/kg | 0.5  | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.6                                                     | 0.25                                                    |
| Chromium                    | mg/kg | 5    | 14                                                      | 7                                                       | 49                                                      | 14                                                      | 7                                                       |
| Copper                      | mg/kg | 5    | 140                                                     | 140                                                     | 2.5                                                     | 200                                                     | 100                                                     |
| Nickel                      | mg/kg | 2    | 52                                                      | 18                                                      | 1                                                       | 17                                                      | 18                                                      |
| Lead                        | mg/kg | 5    | 85                                                      | 140                                                     | 26                                                      | 180                                                     | 290                                                     |
| Zinc                        | mg/kg | 5    | 91                                                      | 93                                                      | 2.5                                                     | 150                                                     | 150                                                     |
| Mercury                     | mg/kg | 0.05 | 0.08                                                    | 0.16                                                    | 0.025                                                   | 0.2                                                     | 0.25                                                    |
| Total Cyanide               | mg/kg | 0.5  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>VOCs</b>                 |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Benzene                     | mg/kg | 0.5  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromobenzene                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromochloromethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromodichloromethane        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromoform                   | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromomethane                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| n-Butylbenzene              | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| sec-Butylbenzene            | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| tert-Butylbenzene           | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Carbon Tetrachloride        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlorobenzene               | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloroethane                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloroform                  | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloromethane               | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Chlorotoluene             | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Chlorotoluene             | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dibromochloromethane        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dibromomethane              | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,3-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,4-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dichlorodifluoromethane     | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,1-Dichloroethene          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dichloroethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,1-Dichloroethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-1,2-Dichloroethene    | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dichloropropane         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.50-0.60<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>2.00-2.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.20-0.30<br>Fill |
|-----------------------------|-------|-----|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                  |       | LOR |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Location             | Units |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                     |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| 1.3-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2.2-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1.3-Dichloropropylene   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-1.3-Dichloropropylene | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Ethylbenzene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Hexachlorobutadiene         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Isopropylene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| p-Isopropyltoluene          | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Methylene chloride          | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Naphthalene                 | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| n-Propylbenzene             | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Styrene                     | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.1.2-Tetrachloroethane   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.2.2-Tetrachloroethane   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Tetrachloroethene           | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Toluene                     | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.3-Trichlorobenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.4-Trichlorobenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.1-Trichloroethane       | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.2-Trichloroethane       | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Trichloroethene             | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Trichlorofluoromethane      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.3-Trichloropropane      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.4-Trimethylbenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.3.5-Trimethylbenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Vinyl chloride              | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| ortho-Xylene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| meta- & para-Xylene         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| TPH                         |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| C6-C9                       | mg/kg | 10  | na                                                      | 5                                                       | na                                                      | na                                                      | 5                                                       |
| C10-C14                     | mg/kg | 10  | na                                                      | 5                                                       | na                                                      | na                                                      | 5                                                       |
| C15-C28                     | mg/kg | 50  | na                                                      | 100                                                     | na                                                      | na                                                      | 340                                                     |
| C29-C36                     | mg/kg | 50  | na                                                      | 60                                                      | na                                                      | na                                                      | 220                                                     |
| Total C10-C36               | mg/kg |     | na                                                      | 165                                                     | na                                                      | na                                                      | 565                                                     |
| BTEX                        |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Benzene                     | mg/kg | 0.5 | na                                                      | 0.25                                                    | 0.25                                                    | na                                                      | 0.25                                                    |
| Toluene                     | mg/kg | 1   | na                                                      | 0.5                                                     | 0.5                                                     | na                                                      | 0.5                                                     |
| Ethylbenzene                | mg/kg | 1   | na                                                      | 0.5                                                     | 0.5                                                     | na                                                      | 0.5                                                     |
| Total Xylenes               | mg/kg | 3   | na                                                      | 1.5                                                     | 1.5                                                     | na                                                      | 1.5                                                     |
| PAHs                        |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Naphthalene                 | mg/kg | 0.5 | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |  |       | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.50-0.60<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>2.00-2.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.20-0.30<br>Fill |
|---------------------------------|--|-------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                      |  | Units | LOR                                                     |                                                         |                                                         |                                                         |                                                         |
| Sample Location                 |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                    |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                         |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Acenaphthylene                  |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Acenaphthene                    |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Fluorene                        |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Phenanthrene                    |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 1                                                       | 2.8                                                     |
| Anthracene                      |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.9                                                     |
| Fluoranthene                    |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 1.4                                                     | 4.6                                                     |
| Pyrene                          |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 1.6                                                     | 5.4                                                     |
| Benzo(a)anthracene              |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.9                                                     | 5                                                       |
| Chrysene                        |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.7                                                     | 3.6                                                     |
| Benzo(b)&(k)fluoranthene        |  | mg/kg | 1                                                       | 0.25                                                    | 0.25                                                    | 1                                                       | 8                                                       |
| Benzo(a)pyrene                  |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.8                                                     | 6.4                                                     |
| Indeno(1.2.3-cd)pyrene          |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.7                                                     | 4.6                                                     |
| Dibenz(a,h)anthracene           |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.8                                                     |
| Benzo(g,h,i)perylene            |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 3                                                       |
| Total PAHs                      |  | mg/kg |                                                         | 4                                                       | 0.25                                                    | 8.4                                                     | 44                                                      |
| <b>Phenols</b>                  |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Phenol                          |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Chlorophenol                  |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Methylphenol                  |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 3-Methylphenol & 4-Methylphenol |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Nitrophenol                   |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dimethylphenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,6-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Chloro-3-methylphenol         |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4,5-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4,6-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dinitrophenol               |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Nitrophenol                   |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,3,4,6-Tetrachlorophenol       |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,6-Dinitro-2-methylphenol      |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Pentachlorophenol               |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,6-Dinitro-2-sec-butylphenol   |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>OCPs</b>                     |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| HCB                             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| alpha-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| gamma-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Heptachlor                      |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Aldrin                          |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Dieldrin                        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| beta-BHC                        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| delta-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |       |     | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>0.50-0.60<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB23<br>2.00-2.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB24<br>0.20-0.30<br>Fill |
|----------------------|-------|-----|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant           |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Location      |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth         |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte              | Units | LOR |                                                         |                                                         |                                                         |                                                         |                                                         |
| Oxychlorane          | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Heptachlor epoxide   | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan I        | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlordane-trans      | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlordane-cis        | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-Nonachlor      | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDE             | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Endrin               | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDD             | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan II       | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDT             | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan sulphate | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Methoxychlor         | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Total OCPs           | mg/kg | 0.1 | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>PCBs</b>          |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Arochlor 1016        | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1221        | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1232        | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1242        | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1248        | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1254        | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1260        | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Total PCBs           | mg/kg |     | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purposes

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.60-0.70<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.10-1.20<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.60-1.70<br>Fill |
|-----------------------------|-------|------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                  |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Location             |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                     | Units | LOR  |                                                         |                                                         |                                                         |                                                         |                                                         |
| <b>HEAVY METALS</b>         |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Arsenic                     | mg/kg | 5    | 18                                                      | 15                                                      | 12                                                      | 2.5                                                     | 2.5                                                     |
| Cadmium                     | mg/kg | 0.5  | 0.25                                                    | 0.6                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Chromium                    | mg/kg | 5    | 2.5                                                     | 10                                                      | 13                                                      | 2.5                                                     | 2.5                                                     |
| Copper                      | mg/kg | 5    | 170                                                     | 3600                                                    | 200                                                     | 2.5                                                     | 9                                                       |
| Nickel                      | mg/kg | 2    | 8                                                       | 18                                                      | 16                                                      | 1                                                       | 1                                                       |
| Lead                        | mg/kg | 5    | 30                                                      | 430                                                     | 76                                                      | 8                                                       | 11                                                      |
| Zinc                        | mg/kg | 5    | 100                                                     | 530                                                     | 120                                                     | 25                                                      | 56                                                      |
| Mercury                     | mg/kg | 0.05 | 0.025                                                   | 0.32                                                    | 0.08                                                    | 0.06                                                    | 0.025                                                   |
| Total Cyanide               | mg/kg | 0.5  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>VOCs</b>                 |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Benzene                     | mg/kg | 0.5  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromobenzene                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromochloromethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromodichloromethane        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromoform                   | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromomethane                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| n-Butylbenzene              | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| sec-Butylbenzene            | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| tert-Butylbenzene           | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Carbon Tetrachloride        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1.2-Dichloroethene      | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlorobenzene               | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloroethane                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloroform                  | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloromethane               | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Chlorotoluene             | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Chlorotoluene             | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dibromochloromethane        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2-Dibromo-3-Chloropropane | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2-Dibromomethane (EDB)    | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dibromomethane              | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.3-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.4-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dichlorodifluoromethane     | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1-Dichloroethene          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2-Dichloroethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1-Dichloroethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1.2-Dichloroethene      | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-1.2-Dichloroethene    | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2-Dichloropropane         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.60-0.70<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.10-1.20<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.60-1.70<br>Fill |
|-----------------------------|-------|-----|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                  |       | LOR |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Location             | Units |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                     |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| 1.3-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2.2-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1.3-Dichloropropylene   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-1.3-Dichloropropylene | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Ethylbenzene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Hexachlorobutadiene         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Isopropylene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| p-Isopropyltoluene          | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Methylene chloride          | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Naphthalene                 | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| n-Propylbenzene             | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Styrene                     | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.1.2-Tetrachloroethane   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.2.2-Tetrachloroethane   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Tetrachloroethene           | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Toluene                     | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.3-Trichlorobenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.4-Trichlorobenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.1-Trichloroethane       | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.2-Trichloroethane       | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Trichloroethene             | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Trichlorofluoromethane      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.3-Trichloropropane      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.4-Trimethylbenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.3.5-Trimethylbenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Vinyl chloride              | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| ortho-Xylene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| meta- & para-Xylene         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| TPH                         |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| C6-C9                       | mg/kg | 10  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| C10-C14                     | mg/kg | 10  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| C15-C28                     | mg/kg | 50  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| C29-C36                     | mg/kg | 50  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Total C10-C36               | mg/kg |     | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| BTEX                        |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Benzene                     | mg/kg | 0.5 | na                                                      | 0.25                                                    | na                                                      | 0.25                                                    | 0.25                                                    |
| Toluene                     | mg/kg | 1   | na                                                      | 0.5                                                     | na                                                      | 0.5                                                     | 0.5                                                     |
| Ethylbenzene                | mg/kg | 1   | na                                                      | 0.5                                                     | na                                                      | 0.5                                                     | 0.5                                                     |
| Total Xylenes               | mg/kg | 3   | na                                                      | 1.5                                                     | na                                                      | 1.5                                                     | 1.5                                                     |
| PAHs                        |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Naphthalene                 | mg/kg | 0.5 | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |  |       | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.60-0.70<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.10-1.20<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.60-1.70<br>Fill |
|---------------------------------|--|-------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                      |  | Units | LOR                                                     |                                                         |                                                         |                                                         |                                                         |
| Sample Location                 |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                    |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                         |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Acenaphthylene                  |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Acenaphthene                    |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Fluorene                        |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Phenanthrene                    |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Anthracene                      |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Fluoranthene                    |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Pyrene                          |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Benzo(a)anthracene              |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Chrysene                        |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Benzo(b)&(k)fluoranthene        |  | mg/kg | 1                                                       | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Benzo(a)pyrene                  |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Indeno(1.2.3-cd)pyrene          |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Dibenz(a,h)anthracene           |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Benzo(g,h,i)perylene            |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Total PAHs                      |  | mg/kg |                                                         | 16                                                      | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| <b>Phenols</b>                  |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Phenol                          |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Chlorophenol                  |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Methylphenol                  |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 3-Methylphenol & 4-Methylphenol |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Nitrophenol                   |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dimethylphenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,6-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Chloro-3-methylphenol         |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4,5-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4,6-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dinitrophenol               |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Nitrophenol                   |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,3,4,6-Tetrachlorophenol       |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,6-Dinitro-2-methylphenol      |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Pentachlorophenol               |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,6-Dinitro-2-sec-butylphenol   |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>OCPs</b>                     |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| HCB                             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| alpha-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| gamma-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Heptachlor                      |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Aldrin                          |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Dieldrin                        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| beta-BHC                        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| delta-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |  |       | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB31<br>0.60-0.70<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.10-1.20<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB32<br>1.60-1.70<br>Fill |
|----------------------|--|-------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant           |  | Units | LOR                                                     |                                                         |                                                         |                                                         |                                                         |
| Sample Location      |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth         |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte              |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Oxychlorane          |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Heptachlor epoxide   |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan I        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlordane-trans      |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlordane-cis        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-Nonachlor      |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDE             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endrin               |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDD             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan II       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDT             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan sulphate |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Methoxychlor         |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Total OCPs           |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| PCBs                 |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Arochlor 1016        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1221        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1232        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1242        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1248        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1254        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1260        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Total PCBs           |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.90-1.00<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.70-0.80<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>1.00-1.10<br>Fill |
|-----------------------------|-------|------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                  |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Location             |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                     | Units | LOR  |                                                         |                                                         |                                                         |                                                         |                                                         |
| <b>HEAVY METALS</b>         |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Arsenic                     | mg/kg | 5    | 9                                                       | 2.5                                                     | 2.5                                                     | 10                                                      | 2.5                                                     |
| Cadmium                     | mg/kg | 0.5  | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Chromium                    | mg/kg | 5    | 6                                                       | 2.5                                                     | 2.5                                                     | 8                                                       | 2.5                                                     |
| Copper                      | mg/kg | 5    | 45                                                      | 110                                                     | 51                                                      | 140                                                     | 2.5                                                     |
| Nickel                      | mg/kg | 2    | 4                                                       | 16                                                      | 6                                                       | 18                                                      | 1                                                       |
| Lead                        | mg/kg | 5    | 88                                                      | 120                                                     | 32                                                      | 930                                                     | 2.5                                                     |
| Zinc                        | mg/kg | 5    | 62                                                      | 100                                                     | 32                                                      | 280                                                     | 10                                                      |
| Mercury                     | mg/kg | 0.05 | 0.35                                                    | 0.2                                                     | 0.1                                                     | 0.76                                                    | 0.025                                                   |
| Total Cyanide               | mg/kg | 0.5  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>VOCs</b>                 |       |      |                                                         |                                                         |                                                         |                                                         |                                                         |
| Benzene                     | mg/kg | 0.5  | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromobenzene                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromochloromethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromodichloromethane        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromoform                   | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Bromomethane                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| n-Butylbenzene              | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| sec-Butylbenzene            | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| tert-Butylbenzene           | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Carbon Tetrachloride        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlorobenzene               | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloroethane                | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloroform                  | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Chloromethane               | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Chlorotoluene             | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Chlorotoluene             | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dibromochloromethane        | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dibromomethane              | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,3-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,4-Dichlorobenzene         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Dichlorodifluoromethane     | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,1-Dichloroethene          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dichloroethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,1-Dichloroethane          | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-1,2-Dichloroethene    | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1,2-Dichloropropane         | mg/kg | 1    | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.90-1.00<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.70-0.80<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>1.00-1.10<br>Fill |
|-----------------------------|-------|-----|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                  |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Location             |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                     | Units | LOR |                                                         |                                                         |                                                         |                                                         |                                                         |
| 1.3-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2.2-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1-Dichloropropane         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| cis-1.3-Dichloropropylene   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-1.3-Dichloropropylene | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Ethylbenzene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Hexachlorobutadiene         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Isopropylene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| p-Isopropyltoluene          | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Methylene chloride          | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Naphthalene                 | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| n-Propylbenzene             | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Styrene                     | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.1.2-Tetrachloroethane   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.2.2-Tetrachloroethane   | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Tetrachloroethene           | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Toluene                     | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.3-Trichlorobenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.4-Trichlorobenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.1-Trichloroethane       | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.1.2-Trichloroethane       | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Trichloroethene             | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Trichlorofluoromethane      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.3-Trichloropropane      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.2.4-Trimethylbenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 1.3.5-Trimethylbenzene      | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Vinyl chloride              | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| ortho-Xylene                | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| meta- & para-Xylene         | mg/kg | 1   | na                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| TPH                         |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| C6-C9                       | mg/kg | 10  | na                                                      | na                                                      | na                                                      | 5                                                       | na                                                      |
| C10-C14                     | mg/kg | 10  | na                                                      | na                                                      | na                                                      | 5                                                       | na                                                      |
| C15-C28                     | mg/kg | 50  | na                                                      | na                                                      | na                                                      | 280                                                     | na                                                      |
| C29-C36                     | mg/kg | 50  | na                                                      | na                                                      | na                                                      | 220                                                     | na                                                      |
| Total C10-C36               | mg/kg |     | na                                                      | na                                                      | na                                                      | 505                                                     | na                                                      |
| BTEX                        |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Benzene                     | mg/kg | 0.5 | na                                                      | 0.25                                                    | na                                                      | 0.25                                                    | 0.25                                                    |
| Toluene                     | mg/kg | 1   | na                                                      | 0.5                                                     | na                                                      | 0.5                                                     | 0.5                                                     |
| Ethylbenzene                | mg/kg | 1   | na                                                      | 0.5                                                     | na                                                      | 0.5                                                     | 0.5                                                     |
| Total Xylenes               | mg/kg | 3   | na                                                      | 1.5                                                     | na                                                      | 1.5                                                     | 1.5                                                     |
| PAHs                        |       |     |                                                         |                                                         |                                                         |                                                         |                                                         |
| Naphthalene                 | mg/kg | 0.5 | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |  |       | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.90-1.00<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.70-0.80<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>1.00-1.10<br>Fill |
|---------------------------------|--|-------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant                      |  | Units | LOR                                                     |                                                         |                                                         |                                                         |                                                         |
| Sample Location                 |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth                    |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte                         |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Acenaphthylene                  |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Acenaphthene                    |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Fluorene                        |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Phenanthrene                    |  | mg/kg | 0.5                                                     | 1                                                       | 0.8                                                     | 2.8                                                     | 0.25                                                    |
| Anthracene                      |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.7                                                     | 0.25                                                    |
| Fluoranthene                    |  | mg/kg | 0.5                                                     | 2.2                                                     | 0.8                                                     | 3.8                                                     | 0.25                                                    |
| Pyrene                          |  | mg/kg | 0.5                                                     | 2.2                                                     | 0.8                                                     | 3.8                                                     | 0.25                                                    |
| Benzo(a)anthracene              |  | mg/kg | 0.5                                                     | 1.2                                                     | 0.5                                                     | 2.8                                                     | 0.25                                                    |
| Chrysene                        |  | mg/kg | 0.5                                                     | 1.2                                                     | 0.6                                                     | 1.8                                                     | 0.25                                                    |
| Benzo(b)&(k)fluoranthene        |  | mg/kg | 1                                                       | 2                                                       | 0.25                                                    | 4                                                       | 0.25                                                    |
| Benzo(a)pyrene                  |  | mg/kg | 0.5                                                     | 1.2                                                     | 0.25                                                    | 3.2                                                     | 0.25                                                    |
| Indeno(1.2.3-cd)pyrene          |  | mg/kg | 0.5                                                     | 0.9                                                     | 0.7                                                     | 2                                                       | 0.25                                                    |
| Dibenz(a,h)anthracene           |  | mg/kg | 0.5                                                     | 0.25                                                    | 0.25                                                    | 0.25                                                    | 0.25                                                    |
| Benzo(g,h,i)perylene            |  | mg/kg | 0.5                                                     | 0.6                                                     | 0.25                                                    | 1.4                                                     | 0.25                                                    |
| Total PAHs                      |  | mg/kg |                                                         | 12                                                      | 3.6                                                     | 26                                                      | 0.25                                                    |
| <b>Phenols</b>                  |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Phenol                          |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Chlorophenol                  |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Methylphenol                  |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 3-Methylphenol & 4-Methylphenol |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2-Nitrophenol                   |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dimethylphenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,6-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Chloro-3-methylphenol         |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4,5-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4,6-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,4-Dinitrophenol               |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4-Nitrophenol                   |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 2,3,4,6-Tetrachlorophenol       |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,6-Dinitro-2-methylphenol      |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| Pentachlorophenol               |  | mg/kg | 10                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,6-Dinitro-2-sec-butylphenol   |  | mg/kg | 20                                                      | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>OCPs</b>                     |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| HCB                             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| alpha-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| gamma-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Heptachlor                      |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Aldrin                          |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Dieldrin                        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| beta-BHC                        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| delta-BHC                       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |  |       | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB39<br>0.90-1.00<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>0.70-0.80<br>Fill | CLEANING SHED<br>CH2M HILL<br>SB42<br>1.00-1.10<br>Fill |
|----------------------|--|-------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Consultant           |  | Units | LOR                                                     |                                                         |                                                         |                                                         |                                                         |
| Sample Location      |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Sample Depth         |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Analyte              |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Oxychlorane          |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Heptachlor epoxide   |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan I        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlordane-trans      |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Chlordane-cis        |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| trans-Nonachlor      |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDE             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endrin               |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDD             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan II       |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| 4,4'-DDT             |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Endosulphan sulphate |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Methoxychlor         |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| Total OCPs           |  | mg/kg | 0.1                                                     | na                                                      | na                                                      | na                                                      | na                                                      |
| <b>PCBs</b>          |  |       |                                                         |                                                         |                                                         |                                                         |                                                         |
| Arochlor 1016        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1221        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1232        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1242        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1248        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1254        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Arochlor 1260        |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |
| Total PCBs           |  | mg/kg | 1                                                       | na                                                      | na                                                      | na                                                      | na                                                      |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |       | CLEANING SHED<br>CH2M HILL<br>TP19<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH21<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH23<br>0.2<br>Fill |
|-----------------------------|-------|-------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Consultant                  |       | Units | LOR                                                     |                                                   |                                                   |                                                   |                                                   |
| Sample Location             |       |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Sample Depth                |       |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Analyte                     |       |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| <b>HEAVY METALS</b>         |       |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Arsenic                     | mg/kg | 5     | 86                                                      | 16                                                | 20                                                | na                                                | 63                                                |
| Cadmium                     | mg/kg | 0.5   | 2                                                       | 0.6                                               | 0.7                                               | na                                                | 0.7                                               |
| Chromium                    | mg/kg | 5     | 27                                                      | 8                                                 | 25                                                | na                                                | 19                                                |
| Copper                      | mg/kg | 5     | 310                                                     | 130                                               | 140                                               | na                                                | 230                                               |
| Nickel                      | mg/kg | 2     | 18                                                      | 8                                                 | 28                                                | na                                                | 17                                                |
| Lead                        | mg/kg | 5     | 230                                                     | 100                                               | 97                                                | na                                                | 140                                               |
| Zinc                        | mg/kg | 5     | 350                                                     | 83                                                | 970                                               | na                                                | 140                                               |
| Mercury                     | mg/kg | 0.05  | 0.25                                                    | 0.52                                              | 0.1                                               | na                                                | 0.13                                              |
| Total Cyanide               | mg/kg | 0.5   | na                                                      | na                                                | na                                                | na                                                | na                                                |
| <b>VOCs</b>                 |       |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Benzene                     | mg/kg | 0.5   | 0.25                                                    | 0.25                                              | na                                                | 0.25                                              | na                                                |
| Bromobenzene                | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Bromochloromethane          | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Bromodichloromethane        | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Bromoform                   | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Bromomethane                | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| n-Butylbenzene              | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| sec-Butylbenzene            | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| tert-Butylbenzene           | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Carbon Tetrachloride        | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| cis-1,2-Dichloroethene      | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Chlorobenzene               | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Chloroethane                | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Chloroform                  | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Chloromethane               | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 2-Chlorotoluene             | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 4-Chlorotoluene             | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Dibromochloromethane        | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Dibromomethane              | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,2-Dichlorobenzene         | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,3-Dichlorobenzene         | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,4-Dichlorobenzene         | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Dichlorodifluoromethane     | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,1-Dichloroethene          | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,2-Dichloroethane          | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,1-Dichloroethane          | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| cis-1,2-Dichloroethene      | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| trans-1,2-Dichloroethene    | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1,2-Dichloropropane         | mg/kg | 1     | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>TP19<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH21<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH23<br>0.2<br>Fill |
|-----------------------------|-------|-----|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Consultant                  |       | LOR |                                                         |                                                   |                                                   |                                                   |                                                   |
| Sample Location             | Units |     |                                                         |                                                   |                                                   |                                                   |                                                   |
| Sample Depth                |       |     |                                                         |                                                   |                                                   |                                                   |                                                   |
| Analyte                     |       |     |                                                         |                                                   |                                                   |                                                   |                                                   |
| 1.3-Dichloropropane         | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 2.2-Dichloropropane         | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.1-Dichloropropane         | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| cis-1.3-Dichloropropylene   | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| trans-1.3-Dichloropropylene | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Ethylbenzene                | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Hexachlorobutadiene         | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Isopropylene                | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| p-Isopropyltoluene          | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Methylene chloride          | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Naphthalene                 | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| n-Propylbenzene             | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Styrene                     | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.1.1.2-Tetrachloroethane   | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.1.2.2-Tetrachloroethane   | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Tetrachloroethene           | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Toluene                     | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.2.3-Trichlorobenzene      | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.2.4-Trichlorobenzene      | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.1.1-Trichloroethane       | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.1.2-Trichloroethane       | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Trichloroethene             | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Trichlorofluoromethane      | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.2.3-Trichloropropane      | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.2.4-Trimethylbenzene      | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| 1.3.5-Trimethylbenzene      | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| Vinyl chloride              | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| ortho-Xylene                | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| meta- & para-Xylene         | mg/kg | 1   | 0.5                                                     | 0.5                                               | na                                                | 0.5                                               | na                                                |
| TPH                         |       |     |                                                         |                                                   |                                                   |                                                   |                                                   |
| C6-C9                       | mg/kg | 10  | na                                                      | na                                                | na                                                | na                                                | na                                                |
| C10-C14                     | mg/kg | 10  | na                                                      | na                                                | na                                                | na                                                | na                                                |
| C15-C28                     | mg/kg | 50  | na                                                      | na                                                | na                                                | na                                                | na                                                |
| C29-C36                     | mg/kg | 50  | na                                                      | na                                                | na                                                | na                                                | na                                                |
| Total C10-C36               | mg/kg |     | na                                                      | na                                                | na                                                | na                                                | na                                                |
| BTEX                        |       |     |                                                         |                                                   |                                                   |                                                   |                                                   |
| Benzene                     | mg/kg | 0.5 | 0.25                                                    | na                                                | 0.25                                              | na                                                | 0.25                                              |
| Toluene                     | mg/kg | 1   | 0.5                                                     | na                                                | 0.5                                               | na                                                | 0.5                                               |
| Ethylbenzene                | mg/kg | 1   | 0.5                                                     | na                                                | 0.5                                               | na                                                | 0.5                                               |
| Total Xylenes               | mg/kg | 3   | 1.5                                                     | na                                                | 1.5                                               | na                                                | 1.5                                               |
| PAHs                        |       |     |                                                         |                                                   |                                                   |                                                   |                                                   |
| Naphthalene                 | mg/kg | 0.5 | 0.25                                                    | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |  |       | CLEANING SHED<br>CH2M HILL<br>TP19<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH21<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH23<br>0.2<br>Fill |
|---------------------------------|--|-------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Consultant                      |  | Units | LOR                                                     |                                                   |                                                   |                                                   |                                                   |
| Sample Location                 |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Sample Depth                    |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Analyte                         |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Acenaphthylene                  |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |
| Acenaphthene                    |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |
| Fluorene                        |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |
| Phenanthrene                    |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.7                                               |
| Anthracene                      |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |
| Fluoranthene                    |  | mg/kg | 0.5                                                     | 0.6                                               | 0.25                                              | na                                                | 1                                                 |
| Pyrene                          |  | mg/kg | 0.5                                                     | 0.6                                               | 0.25                                              | na                                                | 1                                                 |
| Benzo(a)anthracene              |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.6                                               |
| Chrysene                        |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.5                                               |
| Benzo(b)&(k)fluoranthene        |  | mg/kg | 1                                                       | 0.25                                              | 0.25                                              | na                                                | 2                                                 |
| Benzo(a)pyrene                  |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.6                                               |
| Indeno(1.2.3-cd)pyrene          |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |
| Dibenz(a,h)anthracene           |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |
| Benzo(g,h,i)perylene            |  | mg/kg | 0.5                                                     | 0.25                                              | 0.25                                              | na                                                | 0.25                                              |
| Total PAHs                      |  | mg/kg |                                                         | 1.2                                               | 0.25                                              | na                                                | 6.4                                               |
| <b>Phenols</b>                  |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Phenol                          |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2-Chlorophenol                  |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2-Methylphenol                  |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 3-Methylphenol & 4-Methylphenol |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2-Nitrophenol                   |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2,4-Dimethylphenol              |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2,4-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2,6-Dichlorophenol              |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 4-Chloro-3-methylphenol         |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2,4,5-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2,4,6-Trichlorophenol           |  | mg/kg | 5                                                       | na                                                | na                                                | na                                                | na                                                |
| 2,4-Dinitrophenol               |  | mg/kg | 20                                                      | na                                                | na                                                | na                                                | na                                                |
| 4-Nitrophenol                   |  | mg/kg | 10                                                      | na                                                | na                                                | na                                                | na                                                |
| 2,3,4,6-Tetrachlorophenol       |  | mg/kg | 10                                                      | na                                                | na                                                | na                                                | na                                                |
| 4,6-Dinitro-2-methylphenol      |  | mg/kg | 20                                                      | na                                                | na                                                | na                                                | na                                                |
| Pentachlorophenol               |  | mg/kg | 10                                                      | na                                                | na                                                | na                                                | na                                                |
| 4,6-Dinitro-2-sec-butylphenol   |  | mg/kg | 20                                                      | na                                                | na                                                | na                                                | na                                                |
| <b>OCPs</b>                     |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| HCB                             |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| alpha-BHC                       |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| gamma-BHC                       |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Heptachlor                      |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Aldrin                          |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Dieldrin                        |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| beta-BHC                        |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| delta-BHC                       |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |  |       | CLEANING SHED<br>CH2M HILL<br>TP19<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH21<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH22<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH23<br>0.2<br>Fill |
|----------------------|--|-------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Consultant           |  | Units | LOR                                                     |                                                   |                                                   |                                                   |                                                   |
| Sample Location      |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Sample Depth         |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Analyte              |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Oxychlorane          |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Heptachlor epoxide   |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Endosulphan I        |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Chlordane-trans      |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Chlordane-cis        |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| trans-Nonachlor      |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| 4,4'-DDE             |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Endrin               |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| 4,4'-DDD             |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Endosulphan II       |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| 4,4'-DDT             |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Endosulphan sulphate |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Methoxychlor         |  | mg/kg | 0.1                                                     | na                                                | na                                                | 0.05                                              | na                                                |
| Total OCPs           |  | mg/kg | 0.1                                                     | na                                                | na                                                | 1.05                                              | na                                                |
| <b>PCBs</b>          |  |       |                                                         |                                                   |                                                   |                                                   |                                                   |
| Arochlor 1016        |  | mg/kg | 1                                                       | na                                                | na                                                | 0.5                                               | na                                                |
| Arochlor 1221        |  | mg/kg | 1                                                       | na                                                | na                                                | 0.5                                               | na                                                |
| Arochlor 1232        |  | mg/kg | 1                                                       | na                                                | na                                                | 0.5                                               | na                                                |
| Arochlor 1242        |  | mg/kg | 1                                                       | na                                                | na                                                | 0.5                                               | na                                                |
| Arochlor 1248        |  | mg/kg | 1                                                       | na                                                | na                                                | 0.5                                               | na                                                |
| Arochlor 1254        |  | mg/kg | 1                                                       | na                                                | na                                                | 0.5                                               | na                                                |
| Arochlor 1260        |  | mg/kg | 1                                                       | na                                                | na                                                | 0.5                                               | na                                                |
| Total PCBs           |  | mg/kg | 1                                                       | na                                                | na                                                | 0                                                 | na                                                |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | CLEANING SHED<br>CH2M HILL<br>BH23 | CLEANING SHED<br>CH2M HILL<br>BH26 | CLEANING SHED<br>CH2M HILL<br>BH26 | CLEANING SHED<br>CH2M HILL<br>BH27 | CLEANING SHED<br>CH2M HILL<br>BH28 |
|-----------------------------|-------|------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Consultant                  |       |      |                                    |                                    |                                    |                                    |                                    |
| Sample Location             |       |      |                                    |                                    |                                    |                                    |                                    |
| Sample Depth                |       |      |                                    |                                    |                                    |                                    |                                    |
| Analyte                     | Units | LOR  | Fill                               | Fill                               | Fill                               | Fill                               | Fill                               |
| <b>HEAVY METALS</b>         |       |      |                                    |                                    |                                    |                                    |                                    |
| Arsenic                     | mg/kg | 5    | na                                 | 31                                 | na                                 | 27                                 | 43                                 |
| Cadmium                     | mg/kg | 0.5  | na                                 | 0.25                               | na                                 | 0.25                               | 1.2                                |
| Chromium                    | mg/kg | 5    | na                                 | 18                                 | na                                 | 23                                 | 16                                 |
| Copper                      | mg/kg | 5    | na                                 | 120                                | na                                 | 62                                 | 290                                |
| Nickel                      | mg/kg | 2    | na                                 | 21                                 | na                                 | 2                                  | 19                                 |
| Lead                        | mg/kg | 5    | na                                 | 100                                | na                                 | 36                                 | 200                                |
| Zinc                        | mg/kg | 5    | na                                 | 140                                | na                                 | 17                                 | 200                                |
| Mercury                     | mg/kg | 0.05 | na                                 | 0.09                               | na                                 | 0.025                              | 0.31                               |
| Total Cyanide               | mg/kg | 0.5  | na                                 | na                                 | na                                 | na                                 | na                                 |
| <b>VOCs</b>                 |       |      |                                    |                                    |                                    |                                    |                                    |
| Benzene                     | mg/kg | 0.5  | 0.25                               | na                                 | 0.25                               | na                                 | 0.25                               |
| Bromobenzene                | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Bromochloromethane          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Bromodichloromethane        | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Bromoform                   | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Bromomethane                | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| n-Butylbenzene              | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| sec-Butylbenzene            | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| tert-Butylbenzene           | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Carbon Tetrachloride        | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| cis-1,2-Dichloroethene      | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Chlorobenzene               | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Chloroethane                | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Chloroform                  | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Chloromethane               | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 2-Chlorotoluene             | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 4-Chlorotoluene             | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Dibromochloromethane        | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Dibromomethane              | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2-Dichlorobenzene         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,3-Dichlorobenzene         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,4-Dichlorobenzene         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Dichlorodifluoromethane     | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,1-Dichloroethene          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2-Dichloroethane          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,1-Dichloroethane          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| cis-1,2-Dichloroethene      | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| trans-1,2-Dichloroethene    | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2-Dichloropropane         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>BH23 | CLEANING SHED<br>CH2M HILL<br>BH26 | CLEANING SHED<br>CH2M HILL<br>BH26 | CLEANING SHED<br>CH2M HILL<br>BH27 | CLEANING SHED<br>CH2M HILL<br>BH28 |
|-----------------------------|-------|-----|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Consultant                  |       | LOR |                                    |                                    |                                    |                                    |                                    |
| Sample Location             | Units |     |                                    |                                    |                                    |                                    |                                    |
| Sample Depth                |       |     |                                    |                                    |                                    |                                    |                                    |
| Analyte                     |       |     |                                    |                                    |                                    |                                    |                                    |
| 1,3-Dichloropropane         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 2,2-Dichloropropane         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,1-Dichloropropylene       | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| cis-1,3-Dichloropropylene   | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| trans-1,3-Dichloropropylene | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Ethylbenzene                | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Hexachlorobutadiene         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Isopropylene                | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| p-Isopropyltoluene          | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Methylene chloride          | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Naphthalene                 | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| n-Propylbenzene             | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Styrene                     | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,1,1,2-Tetrachloroethane   | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Tetrachloroethene           | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Toluene                     | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2,3-Trichlorobenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2,4-Trichlorobenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,1,1-Trichloroethane       | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,1,2-Trichloroethane       | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Trichloroethene             | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Trichlorofluoromethane      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2,3-Trichloropropane      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,2,4-Trimethylbenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| 1,3,5-Trimethylbenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| Vinyl chloride              | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| ortho-Xylene                | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| meta- & para-Xylene         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                | na                                 | 0.5                                |
| TPH                         |       |     |                                    |                                    |                                    |                                    |                                    |
| C6-C9                       | mg/kg | 10  | na                                 | na                                 | na                                 | na                                 | na                                 |
| C10-C14                     | mg/kg | 10  | na                                 | na                                 | na                                 | na                                 | na                                 |
| C15-C28                     | mg/kg | 50  | na                                 | na                                 | na                                 | na                                 | na                                 |
| C29-C36                     | mg/kg | 50  | na                                 | na                                 | na                                 | na                                 | na                                 |
| Total C10-C36               | mg/kg |     | na                                 | na                                 | na                                 | na                                 | na                                 |
| BTEX                        |       |     |                                    |                                    |                                    |                                    |                                    |
| Benzene                     | mg/kg | 0.5 | na                                 | 0.25                               | na                                 | na                                 | 0.25                               |
| Toluene                     | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Ethylbenzene                | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Total Xylenes               | mg/kg | 3   | na                                 | 1.5                                | na                                 | na                                 | 1.5                                |
| PAHs                        |       |     |                                    |                                    |                                    |                                    |                                    |
| Naphthalene                 | mg/kg | 0.5 | 0.25                               | 0.6                                | na                                 | 0.25                               | 0.25                               |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |  |       | CLEANING SHED<br>CH2M HILL<br>BH23<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH26<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH26<br>0.8<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH27<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH28<br>0.30-0.40<br>Fill |
|---------------------------------|--|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| Consultant                      |  | Units | LOR                                               |                                                   |                                                   |                                                   |                                                         |
| Sample Location                 |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Sample Depth                    |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Analyte                         |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Acenaphthylene                  |  | mg/kg | 0.5                                               | 0.25                                              | na                                                | 0.25                                              | 0.25                                                    |
| Acenaphthene                    |  | mg/kg | 0.5                                               | 0.25                                              | na                                                | 0.25                                              | 0.25                                                    |
| Fluorene                        |  | mg/kg | 0.5                                               | 0.25                                              | na                                                | 0.25                                              | 0.25                                                    |
| Phenanthrene                    |  | mg/kg | 0.5                                               | 0.25                                              | na                                                | 0.25                                              | 0.5                                                     |
| Anthracene                      |  | mg/kg | 0.5                                               | 0.25                                              | na                                                | 0.25                                              | 0.25                                                    |
| Fluoranthene                    |  | mg/kg | 0.5                                               | 1                                                 | na                                                | 0.5                                               | 0.9                                                     |
| Pyrene                          |  | mg/kg | 0.5                                               | 7.4                                               | na                                                | 0.5                                               | 0.9                                                     |
| Benzo(a)anthracene              |  | mg/kg | 0.5                                               | 7.2                                               | na                                                | 0.25                                              | 0.6                                                     |
| Chrysene                        |  | mg/kg | 0.5                                               | 4.2                                               | na                                                | 0.25                                              | 0.25                                                    |
| Benzo(b)&(k)fluoranthene        |  | mg/kg | 0.5                                               | 2.6                                               | na                                                | 1                                                 | 2                                                       |
| Benzo(a)pyrene                  |  | mg/kg | 0.5                                               | 13                                                | na                                                | 0.25                                              | 0.6                                                     |
| Indeno(1.2.3-cd)pyrene          |  | mg/kg | 0.5                                               | 4.6                                               | na                                                | 0.25                                              | 0.5                                                     |
| Dibenz(a,h)anthracene           |  | mg/kg | 0.5                                               | 3.6                                               | na                                                | 0.25                                              | 0.25                                                    |
| Benzo(g,h,i)perylene            |  | mg/kg | 0.5                                               | 0.25                                              | na                                                | 0.25                                              | 0.25                                                    |
| Total PAHs                      |  | mg/kg | 0.5                                               | 1.8                                               | na                                                | 0.25                                              | 6.2                                                     |
| 50                              |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| <b>Phenols</b>                  |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Phenol                          |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2-Chlorophenol                  |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2-Methylphenol                  |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 3-Methylphenol & 4-Methylphenol |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2-Nitrophenol                   |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2,4-Dimethylphenol              |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2,4-Dichlorophenol              |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2,6-Dichlorophenol              |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 4-Chloro-3-methylphenol         |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2,4,5-Trichlorophenol           |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2,4,6-Trichlorophenol           |  | mg/kg | 5                                                 | na                                                | na                                                | na                                                | na                                                      |
| 2,4-Dinitrophenol               |  | mg/kg | 20                                                | na                                                | na                                                | na                                                | na                                                      |
| 4-Nitrophenol                   |  | mg/kg | 10                                                | na                                                | na                                                | na                                                | na                                                      |
| 2,3,4,6-Tetrachlorophenol       |  | mg/kg | 10                                                | na                                                | na                                                | na                                                | na                                                      |
| 4,6-Dinitro-2-methylphenol      |  | mg/kg | 20                                                | na                                                | na                                                | na                                                | na                                                      |
| Pentachlorophenol               |  | mg/kg | 10                                                | na                                                | na                                                | na                                                | na                                                      |
| 4,6-Dinitro-2-sec-butylphenol   |  | mg/kg | 20                                                | na                                                | na                                                | na                                                | na                                                      |
| <b>OCPs</b>                     |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| HCB                             |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| alpha-BHC                       |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| gamma-BHC                       |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Heptachlor                      |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Aldrin                          |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Dieldrin                        |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| beta-BHC                        |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| delta-BHC                       |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |  |       | CLEANING SHED<br>CH2M HILL<br>BH23<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH26<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH26<br>0.8<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH27<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH28<br>0.30-0.40<br>Fill |
|----------------------|--|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| Consultant           |  | Units | LOR                                               |                                                   |                                                   |                                                   |                                                         |
| Sample Location      |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Sample Depth         |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Analyte              |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Oxychlorane          |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Heptachlor epoxide   |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Endosulphan I        |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Chlordane-trans      |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Chlordane-cis        |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| trans-Nonachlor      |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| 4,4'-DDE             |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Endrin               |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| 4,4'-DDD             |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Endosulphan II       |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| 4,4'-DDT             |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Endosulphan sulphate |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Methoxychlor         |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| Total OCPs           |  | mg/kg | 0.1                                               | na                                                | na                                                | na                                                | na                                                      |
| <b>PCBs</b>          |  |       |                                                   |                                                   |                                                   |                                                   |                                                         |
| Arochlor 1016        |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |
| Arochlor 1221        |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |
| Arochlor 1232        |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |
| Arochlor 1242        |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |
| Arochlor 1248        |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |
| Arochlor 1254        |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |
| Arochlor 1260        |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |
| Total PCBs           |  | mg/kg | 1                                                 | na                                                | na                                                | na                                                | na                                                      |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | CLEANING SHED<br>CH2M HILL<br>BH29 | CLEANING SHED<br>CH2M HILL<br>BH29 | CLEANING SHED<br>CH2M HILL<br>BH30 | CLEANING SHED<br>CH2M HILL<br>BH30 | CLEANING SHED<br>CH2M HILL<br>BH31 |
|-----------------------------|-------|------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Consultant                  |       |      | 0.2                                | 0.6                                | 0.2                                | 0.6                                | 0.20-0.30                          |
| Sample Location             |       |      | Fill                               | Fill                               | Fill                               | Fill                               | Fill                               |
| Sample Depth                |       |      |                                    |                                    |                                    |                                    |                                    |
| Analyte                     | Units | LOR  |                                    |                                    |                                    |                                    |                                    |
| <b>HEAVY METALS</b>         |       |      |                                    |                                    |                                    |                                    |                                    |
| Arsenic                     | mg/kg | 5    | 69                                 | 52                                 | 79                                 | 72                                 | 160                                |
| Cadmium                     | mg/kg | 0.5  | 3                                  | 1.2                                | 1                                  | 2.2                                | 0.25                               |
| Chromium                    | mg/kg | 5    | 27                                 | 24                                 | 180                                | 24                                 | 24                                 |
| Copper                      | mg/kg | 5    | 460                                | 250                                | 170                                | 540                                | 160                                |
| Nickel                      | mg/kg | 2    | 25                                 | 25                                 | 150                                | 41                                 | 21                                 |
| Lead                        | mg/kg | 5    | 250                                | 220                                | 140                                | 340                                | 140                                |
| Zinc                        | mg/kg | 5    | 270                                | 420                                | 220                                | 330                                | 130                                |
| Mercury                     | mg/kg | 0.05 | 0.21                               | 0.18                               | 0.15                               | 0.87                               | 0.16                               |
| Total Cyanide               | mg/kg | 0.5  | na                                 | na                                 | na                                 | na                                 | na                                 |
| <b>VOCs</b>                 |       |      |                                    |                                    |                                    |                                    |                                    |
| Benzene                     | mg/kg | 0.5  | na                                 | 0.25                               | na                                 | na                                 | 0.25                               |
| Bromobenzene                | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Bromochloromethane          | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Bromodichloromethane        | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Bromoform                   | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Bromomethane                | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| n-Butylbenzene              | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| sec-Butylbenzene            | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| tert-Butylbenzene           | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Carbon Tetrachloride        | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Chlorobenzene               | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Chloroethane                | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Chloroform                  | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Chloromethane               | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 2-Chlorotoluene             | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 4-Chlorotoluene             | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Dibromochloromethane        | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Dibromomethane              | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,2-Dichlorobenzene         | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,3-Dichlorobenzene         | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,4-Dichlorobenzene         | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Dichlorodifluoromethane     | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,1-Dichloroethene          | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,2-Dichloroethane          | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,1-Dichloroethane          | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| trans-1,2-Dichloroethene    | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1,2-Dichloropropane         | mg/kg | 1    | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>BH29 | CLEANING SHED<br>CH2M HILL<br>BH29 | CLEANING SHED<br>CH2M HILL<br>BH30 | CLEANING SHED<br>CH2M HILL<br>BH30 | CLEANING SHED<br>CH2M HILL<br>BH31 |
|-----------------------------|-------|-----|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Consultant                  |       |     |                                    |                                    |                                    |                                    |                                    |
| Sample Location             |       |     |                                    |                                    |                                    |                                    |                                    |
| Sample Depth                |       |     |                                    |                                    |                                    |                                    |                                    |
| Analyte                     | Units | LOR | Fill                               | Fill                               | Fill                               | Fill                               | Fill                               |
| 1.3-Dichloropropane         | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 2.2-Dichloropropane         | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.1-Dichloropropylene       | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| cis-1.3-Dichloropropylene   | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| trans-1.3-Dichloropropylene | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Ethylbenzene                | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Hexachlorobutadiene         | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Isopropylene                | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| p-Isopropyltoluene          | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Methylene chloride          | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Naphthalene                 | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| n-Propylbenzene             | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Styrene                     | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.1.1.2-Tetrachloroethane   | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.1.2.2-Tetrachloroethane   | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Tetrachloroethene           | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Toluene                     | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.2.3-Trichlorobenzene      | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.2.4-Trichlorobenzene      | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.1.1-Trichloroethane       | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.1.2-Trichloroethane       | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Trichloroethene             | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Trichlorofluoromethane      | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.2.3-Trichloropropane      | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.2.4-Trimethylbenzene      | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| 1.3.5-Trimethylbenzene      | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| Vinyl chloride              | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| ortho-Xylene                | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| meta- & para-Xylene         | mg/kg | 1   | na                                 | 0.5                                | na                                 | na                                 | 0.5                                |
| TPH                         |       |     |                                    |                                    |                                    |                                    |                                    |
| C6-C9                       | mg/kg | 10  | na                                 | na                                 | na                                 | na                                 | na                                 |
| C10-C14                     | mg/kg | 10  | na                                 | na                                 | na                                 | na                                 | na                                 |
| C15-C28                     | mg/kg | 50  | na                                 | na                                 | na                                 | na                                 | na                                 |
| C29-C36                     | mg/kg | 50  | na                                 | na                                 | na                                 | na                                 | na                                 |
| Total C10-C36               | mg/kg |     | na                                 | na                                 | na                                 | na                                 | na                                 |
| BTEX                        |       |     |                                    |                                    |                                    |                                    |                                    |
| Benzene                     | mg/kg | 0.5 | 0.25                               | 0.25                               | na                                 | 0.25                               | na                                 |
| Toluene                     | mg/kg | 1   | 0.5                                | 0.5                                | na                                 | 0.5                                | na                                 |
| Ethylbenzene                | mg/kg | 1   | 0.5                                | 0.5                                | na                                 | 0.5                                | na                                 |
| Total Xylenes               | mg/kg | 3   | 1.5                                | 1.5                                | na                                 | 1.5                                | na                                 |
| PAHs                        |       |     |                                    |                                    |                                    |                                    |                                    |
| Naphthalene                 | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.8                                | 0.25                               | na                                 |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |       |     | CLEANING SHED<br>CH2M HILL<br>BH29 | CLEANING SHED<br>CH2M HILL<br>BH29 | CLEANING SHED<br>CH2M HILL<br>BH30 | CLEANING SHED<br>CH2M HILL<br>BH30 | CLEANING SHED<br>CH2M HILL<br>BH31 |
|---------------------------------|-------|-----|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Consultant                      |       |     |                                    |                                    |                                    |                                    |                                    |
| Sample Location                 |       |     |                                    |                                    |                                    |                                    |                                    |
| Sample Depth                    |       |     |                                    |                                    |                                    |                                    |                                    |
| Analyte                         | Units | LOR | Fill                               | Fill                               | Fill                               | Fill                               | Fill                               |
| Acenaphthylene                  | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                               | 0.25                               | na                                 |
| Acenaphthene                    | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                               | 0.25                               | na                                 |
| Fluorene                        | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                               | 0.25                               | na                                 |
| Phenanthrene                    | mg/kg | 0.5 | 1.6                                | 1.6                                | 1.8                                | 1.6                                | na                                 |
| Anthracene                      | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                               | 0.25                               | na                                 |
| Fluoranthene                    | mg/kg | 0.5 | 3.4                                | 2.2                                | 2.2                                | 4                                  | na                                 |
| Pyrene                          | mg/kg | 0.5 | 4                                  | 2.4                                | 1.8                                | 4.4                                | na                                 |
| Benzo(a)anthracene              | mg/kg | 0.5 | 2.6                                | 1.6                                | 1.6                                | 3.6                                | na                                 |
| Chrysene                        | mg/kg | 0.5 | 1.6                                | 0.9                                | 0.8                                | 1.6                                | na                                 |
| Benzo(b)&(k)fluoranthene        | mg/kg | 1   | 8                                  | 5                                  | 5                                  | 12                                 | na                                 |
| Benzo(a)pyrene                  | mg/kg | 0.5 | 2.4                                | 1.4                                | 1.2                                | 4.4                                | na                                 |
| Indeno(1,2,3-cd)pyrene          | mg/kg | 0.5 | 2                                  | 1.2                                | 1                                  | 3.6                                | na                                 |
| Dibenz(a,h)anthracene           | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                               | 0.25                               | na                                 |
| Benzo(g,h,i)perylene            | mg/kg | 0.5 | 1.2                                | 0.7                                | 0.6                                | 2                                  | na                                 |
| Total PAHs                      | mg/kg |     | 26                                 | 17                                 | 16                                 | 37                                 | na                                 |
| <b>Phenols</b>                  |       |     |                                    |                                    |                                    |                                    |                                    |
| Phenol                          | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2-Chlorophenol                  | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2-Methylphenol                  | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 3-Methylphenol & 4-Methylphenol | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2-Nitrophenol                   | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2,4-Dimethylphenol              | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2,4-Dichlorophenol              | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2,6-Dichlorophenol              | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 4-Chloro-3-methylphenol         | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2,4,5-Trichlorophenol           | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2,4,6-Trichlorophenol           | mg/kg | 5   | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2,4-Dinitrophenol               | mg/kg | 20  | na                                 | na                                 | na                                 | na                                 | na                                 |
| 4-Nitrophenol                   | mg/kg | 10  | na                                 | na                                 | na                                 | na                                 | na                                 |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | 10  | na                                 | na                                 | na                                 | na                                 | na                                 |
| 4,6-Dinitro-2-methylphenol      | mg/kg | 20  | na                                 | na                                 | na                                 | na                                 | na                                 |
| Pentachlorophenol               | mg/kg | 10  | na                                 | na                                 | na                                 | na                                 | na                                 |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg | 20  | na                                 | na                                 | na                                 | na                                 | na                                 |
| <b>OCPs</b>                     |       |     |                                    |                                    |                                    |                                    |                                    |
| HCB                             | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |
| alpha-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |
| gamma-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |
| Heptachlor                      | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |
| Aldrin                          | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |
| Dieldrin                        | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |
| beta-BHC                        | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |
| delta-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                 | na                                 | 0.05                               |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |       |     | CLEANING SHED<br>CH2M HILL<br>BH29<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH29<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH30<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH30<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH31<br>0.20-0.30<br>Fill |
|----------------------|-------|-----|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|
| Consultant           |       |     |                                                   |                                                   |                                                   |                                                   |                                                         |
| Sample Location      |       |     |                                                   |                                                   |                                                   |                                                   |                                                         |
| Sample Depth         |       |     |                                                   |                                                   |                                                   |                                                   |                                                         |
| Analyte              | Units | LOR |                                                   |                                                   |                                                   |                                                   |                                                         |
| Oxychlorane          | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Heptachlor epoxide   | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Endosulphan I        | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Chlordane-trans      | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Chlordane-cis        | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| trans-Nonachlor      | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| 4,4'-DDE             | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Endrin               | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| 4,4'-DDD             | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Endosulphan II       | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| 4,4'-DDT             | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Endosulphan sulphate | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Methoxychlor         | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 0.05                                                    |
| Total OCPs           | mg/kg | 0.1 | na                                                | na                                                | na                                                | na                                                | 1.05                                                    |
| <b>PCBs</b>          |       |     |                                                   |                                                   |                                                   |                                                   |                                                         |
| Arochlor 1016        | mg/kg | 1   | na                                                | na                                                | na                                                | na                                                | 0.5                                                     |
| Arochlor 1221        | mg/kg | 1   | na                                                | na                                                | na                                                | na                                                | 0.5                                                     |
| Arochlor 1232        | mg/kg | 1   | na                                                | na                                                | na                                                | na                                                | 0.5                                                     |
| Arochlor 1242        | mg/kg | 1   | na                                                | na                                                | na                                                | na                                                | 0.5                                                     |
| Arochlor 1248        | mg/kg | 1   | na                                                | na                                                | na                                                | na                                                | 0.5                                                     |
| Arochlor 1254        | mg/kg | 1   | na                                                | na                                                | na                                                | na                                                | 0.5                                                     |
| Arochlor 1260        | mg/kg | 1   | na                                                | na                                                | na                                                | na                                                | 0.5                                                     |
| Total PCBs           | mg/kg |     | na                                                | na                                                | na                                                | na                                                | 0                                                       |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | CLEANING SHED<br>CH2M HILL<br>BH31 | CLEANING SHED<br>CH2M HILL<br>BH33 | CLEANING SHED<br>CH2M HILL<br>TP34 | CLEANING SHED<br>CH2M HILL<br>TP34 | CLEANING SHED |
|-----------------------------|-------|------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------|
| Consultant                  |       |      |                                    |                                    |                                    |                                    | CLEANING SHED |
| Sample Location             |       |      |                                    |                                    |                                    |                                    | CH2M HILL     |
| Sample Depth                |       |      |                                    |                                    |                                    |                                    | BH35          |
| Analyte                     | Units | LOR  | Fill                               | Fill                               | 0.00-0.10                          | 0.40-0.50                          | Fill          |
| <b>HEAVY METALS</b>         |       |      |                                    |                                    |                                    |                                    |               |
| Arsenic                     | mg/kg | 5    | 2.5                                | 19                                 | 10                                 | 2.5                                | 15            |
| Cadmium                     | mg/kg | 0.5  | 0.25                               | 0.25                               | 0.25                               | 0.25                               | 1.4           |
| Chromium                    | mg/kg | 5    | 8                                  | 10                                 | 39                                 | 7                                  | 14            |
| Copper                      | mg/kg | 5    | 8                                  | 120                                | 130                                | 100                                | 210           |
| Nickel                      | mg/kg | 2    | 1                                  | 17                                 | 40                                 | 11                                 | 20            |
| Lead                        | mg/kg | 5    | 11                                 | 120                                | 170                                | 180                                | 320           |
| Zinc                        | mg/kg | 5    | 2.5                                | 70                                 | 89                                 | 440                                | 660           |
| Mercury                     | mg/kg | 0.05 | 0.025                              | 0.26                               | 0.025                              | 1.37                               | 0.28          |
| Total Cyanide               | mg/kg | 0.5  | na                                 | na                                 | na                                 | na                                 | na            |
| <b>VOCs</b>                 |       |      |                                    |                                    |                                    |                                    |               |
| Benzene                     | mg/kg | 0.5  | na                                 | 0.25                               | 0.25                               | na                                 | 0.25          |
| Bromobenzene                | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Bromochloromethane          | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Bromodichloromethane        | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Bromoform                   | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Bromomethane                | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| n-Butylbenzene              | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| sec-Butylbenzene            | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| tert-Butylbenzene           | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Carbon Tetrachloride        | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Chlorobenzene               | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Chloroethane                | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Chloroform                  | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Chloromethane               | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 2-Chlorotoluene             | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 4-Chlorotoluene             | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Dibromochloromethane        | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Dibromomethane              | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,2-Dichlorobenzene         | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,3-Dichlorobenzene         | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,4-Dichlorobenzene         | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| Dichlorodifluoromethane     | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,1-Dichloroethene          | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,2-Dichloroethane          | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,1-Dichloroethane          | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| cis-1,2-Dichloroethene      | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| trans-1,2-Dichloroethene    | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |
| 1,2-Dichloropropane         | mg/kg | 1    | na                                 | 0.5                                | 0.5                                | na                                 | 0.5           |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>BH31<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH33<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP34<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP34<br>0.40-0.50<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH35<br>0.2<br>Fill |
|-----------------------------|-------|-----|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|
| Consultant                  |       | LOR |                                                   |                                                   |                                                         |                                                         |                                                   |
| Sample Location             | Units |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Sample Depth                |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Analyte                     |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| 1.3-Dichloropropane         | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 2.2-Dichloropropane         | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.1-Dichloropropane         | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| cis-1.3-Dichloropropylene   | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| trans-1.3-Dichloropropylene | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Ethylbenzene                | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Hexachlorobutadiene         | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Isopropylene                | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| p-Isopropyltoluene          | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Methylene chloride          | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Naphthalene                 | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| n-Propylbenzene             | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Styrene                     | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.1.1.2-Tetrachloroethane   | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.1.2.2-Tetrachloroethane   | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Tetrachloroethene           | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Toluene                     | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.2.3-Trichlorobenzene      | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.2.4-Trichlorobenzene      | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.1.1-Trichloroethane       | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.1.2-Trichloroethane       | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Trichloroethene             | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Trichlorofluoromethane      | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.2.3-Trichloropropane      | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.2.4-Trimethylbenzene      | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| 1.3.5-Trimethylbenzene      | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| Vinyl chloride              | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| ortho-Xylene                | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| meta- & para-Xylene         | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | na                                                      | 0.5                                               |
| TPH                         |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| C6-C9                       | mg/kg | 10  | na                                                | na                                                | na                                                      | na                                                      | na                                                |
| C10-C14                     | mg/kg | 10  | na                                                | na                                                | na                                                      | na                                                      | na                                                |
| C15-C28                     | mg/kg | 50  | na                                                | na                                                | na                                                      | na                                                      | na                                                |
| C29-C36                     | mg/kg | 50  | na                                                | na                                                | na                                                      | na                                                      | na                                                |
| Total C10-C36               | mg/kg |     | na                                                | na                                                | na                                                      | na                                                      | na                                                |
| BTEX                        |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Benzene                     | mg/kg | 0.5 | na                                                | 0.25                                              | 0.25                                                    | 0.25                                                    | 0.25                                              |
| Toluene                     | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | 0.5                                                     | 0.5                                               |
| Ethylbenzene                | mg/kg | 1   | na                                                | 0.5                                               | 0.5                                                     | 0.5                                                     | 0.5                                               |
| Total Xylenes               | mg/kg | 3   | na                                                | 1.5                                               | 1.5                                                     | 1.5                                                     | 1.5                                               |
| PAHs                        |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Naphthalene                 | mg/kg | 0.5 | na                                                | 0.25                                              | 0.25                                                    | 0.9                                                     | 2.2                                               |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |  |       | CLEANING SHED<br>CH2M HILL<br>BH31<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH33<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP34<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP34<br>0.40-0.50<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH35<br>0.2<br>Fill |
|---------------------------------|--|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|
| Consultant                      |  | Units | LOR                                               |                                                   |                                                         |                                                         |                                                   |
| Sample Location                 |  |       |                                                   |                                                   |                                                         |                                                         |                                                   |
| Sample Depth                    |  |       |                                                   |                                                   |                                                         |                                                         |                                                   |
| Analyte                         |  |       |                                                   |                                                   |                                                         |                                                         |                                                   |
| Acenaphthylene                  |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 3.2                                                     | 7.8                                               |
| Acenaphthene                    |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 0.6                                                     | 1.2                                               |
| Fluorene                        |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 1.6                                                     | 5.6                                               |
| Phenanthrene                    |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 17                                                      | 34                                                |
| Anthracene                      |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 5.6                                                     | 8.6                                               |
| Fluoranthene                    |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 41                                                      | 33                                                |
| Pyrene                          |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 41                                                      | 32                                                |
| Benzo(a)anthracene              |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 26                                                      | 19                                                |
| Chrysene                        |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 19                                                      | 10                                                |
| Benzo(b)&(k)fluoranthene        |  | mg/kg | 1                                                 | 0.25                                              | 0.25                                                    | 38                                                      | 24                                                |
| Benzo(a)pyrene                  |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 30                                                      | 14                                                |
| Indeno(1.2.3-cd)pyrene          |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 16                                                      | 12                                                |
| Dibenz(a,h)anthracene           |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 4.6                                                     | 1                                                 |
| Benzo(g,h,i)perylene            |  | mg/kg | 0.5                                               | 0.25                                              | 0.25                                                    | 15                                                      | 6                                                 |
| Total PAHs                      |  | mg/kg |                                                   | 0.25                                              | 0.25                                                    | 260                                                     | 210                                               |
| <b>Phenols</b>                  |  |       |                                                   |                                                   |                                                         |                                                         |                                                   |
| Phenol                          |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2-Chlorophenol                  |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2-Methylphenol                  |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 3-Methylphenol & 4-Methylphenol |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2-Nitrophenol                   |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2,4-Dimethylphenol              |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2,4-Dichlorophenol              |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2,6-Dichlorophenol              |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 4-Chloro-3-methylphenol         |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2,4,5-Trichlorophenol           |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2,4,6-Trichlorophenol           |  | mg/kg | 5                                                 | na                                                | na                                                      | 2.5                                                     | 2.5                                               |
| 2,4-Dinitrophenol               |  | mg/kg | 20                                                | na                                                | na                                                      | 10                                                      | 10                                                |
| 4-Nitrophenol                   |  | mg/kg | 10                                                | na                                                | na                                                      | 5                                                       | 5                                                 |
| 2,3,4,6-Tetrachlorophenol       |  | mg/kg | 10                                                | na                                                | na                                                      | 5                                                       | 5                                                 |
| 4,6-Dinitro-2-methylphenol      |  | mg/kg | 20                                                | na                                                | na                                                      | 10                                                      | 10                                                |
| Pentachlorophenol               |  | mg/kg | 10                                                | na                                                | na                                                      | 5                                                       | 5                                                 |
| 4,6-Dinitro-2-sec-butylphenol   |  | mg/kg | 20                                                | na                                                | na                                                      | 10                                                      | 10                                                |
| <b>OCPs</b>                     |  |       |                                                   |                                                   |                                                         |                                                         |                                                   |
| HCB                             |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |
| alpha-BHC                       |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |
| gamma-BHC                       |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |
| Heptachlor                      |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |
| Aldrin                          |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |
| Dieldrin                        |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |
| beta-BHC                        |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |
| delta-BHC                       |  | mg/kg | 0.1                                               | na                                                | 0.05                                                    | na                                                      | na                                                |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |       |     | CLEANING SHED<br>CH2M HILL<br>BH31<br>0.6<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH33<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP34<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP34<br>0.40-0.50<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH35<br>0.2<br>Fill |
|----------------------|-------|-----|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|
| Consultant           |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Sample Location      |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Sample Depth         |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Analyte              | Units | LOR |                                                   |                                                   |                                                         |                                                         |                                                   |
| Oxychlorane          | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Heptachlor epoxide   | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Endosulphan I        | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Chlordane-trans      | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Chlordane-cis        | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| trans-Nonachlor      | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| 4,4'-DDE             | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Endrin               | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| 4,4'-DDD             | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Endosulphan II       | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| 4,4'-DDT             | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Endosulphan sulphate | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Methoxychlor         | mg/kg | 0.1 | na                                                | na                                                | 0.05                                                    | na                                                      | na                                                |
| Total OCPs           | mg/kg | 0.1 | na                                                | na                                                | 1.05                                                    | na                                                      | na                                                |
| <b>PCBs</b>          |       |     |                                                   |                                                   |                                                         |                                                         |                                                   |
| Arochlor 1016        | mg/kg | 1   | na                                                | na                                                | 0.5                                                     | na                                                      | na                                                |
| Arochlor 1221        | mg/kg | 1   | na                                                | na                                                | 0.5                                                     | na                                                      | na                                                |
| Arochlor 1232        | mg/kg | 1   | na                                                | na                                                | 0.5                                                     | na                                                      | na                                                |
| Arochlor 1242        | mg/kg | 1   | na                                                | na                                                | 0.5                                                     | na                                                      | na                                                |
| Arochlor 1248        | mg/kg | 1   | na                                                | na                                                | 0.5                                                     | na                                                      | na                                                |
| Arochlor 1254        | mg/kg | 1   | na                                                | na                                                | 0.5                                                     | na                                                      | na                                                |
| Arochlor 1260        | mg/kg | 1   | na                                                | na                                                | 0.5                                                     | na                                                      | na                                                |
| Total PCBs           | mg/kg |     | na                                                | na                                                | 0                                                       | na                                                      | na                                                |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | CLEANING SHED<br>CH2M HILL<br>BH37 | CLEANING SHED<br>CH2M HILL<br>BH37 | CLEANING SHED<br>CH2M HILL<br>TP40<br>0.00-0.10 | CLEANING SHED<br>CH2M HILL<br>BH41 | CLEANING SHED<br>CH2M HILL<br>BH41 |
|-----------------------------|-------|------|------------------------------------|------------------------------------|-------------------------------------------------|------------------------------------|------------------------------------|
| Consultant                  |       |      |                                    |                                    |                                                 |                                    |                                    |
| Sample Location             |       |      |                                    |                                    |                                                 |                                    |                                    |
| Sample Depth                |       |      |                                    |                                    |                                                 |                                    |                                    |
| Analyte                     | Units | LOR  | Fill                               | Fill                               | Fill                                            | Fill                               | Fill                               |
| <b>HEAVY METALS</b>         |       |      |                                    |                                    |                                                 |                                    |                                    |
| Arsenic                     | mg/kg | 5    | 13                                 | 6                                  | 47                                              | 51                                 | 2.5                                |
| Cadmium                     | mg/kg | 0.5  | 0.25                               | 0.5                                | 0.8                                             | 0.8                                | 0.25                               |
| Chromium                    | mg/kg | 5    | 15                                 | 11                                 | 12                                              | 20                                 | 17                                 |
| Copper                      | mg/kg | 5    | 130                                | 100                                | 180                                             | 160                                | 2.5                                |
| Nickel                      | mg/kg | 2    | 42                                 | 31                                 | 13                                              | 14                                 | 3                                  |
| Lead                        | mg/kg | 5    | 40                                 | 150                                | 260                                             | 220                                | 20                                 |
| Zinc                        | mg/kg | 5    | 62                                 | 420                                | 210                                             | 340                                | 24                                 |
| Mercury                     | mg/kg | 0.05 | 0.08                               | 0.26                               | 0.41                                            | 0.21                               | 0.025                              |
| Total Cyanide               | mg/kg | 0.5  | na                                 | na                                 | na                                              | na                                 | na                                 |
| <b>VOCs</b>                 |       |      |                                    |                                    |                                                 |                                    |                                    |
| Benzene                     | mg/kg | 0.5  | 0.25                               | na                                 | 0.25                                            | na                                 | 0.25                               |
| Bromobenzene                | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Bromochloromethane          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Bromodichloromethane        | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Bromoform                   | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Bromomethane                | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| n-Butylbenzene              | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| sec-Butylbenzene            | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| tert-Butylbenzene           | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Carbon Tetrachloride        | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| cis-1,2-Dichloroethene      | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Chlorobenzene               | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Chloroethane                | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Chloroform                  | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Chloromethane               | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 2-Chlorotoluene             | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 4-Chlorotoluene             | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Dibromochloromethane        | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Dibromomethane              | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,2-Dichlorobenzene         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,3-Dichlorobenzene         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,4-Dichlorobenzene         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Dichlorodifluoromethane     | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,1-Dichloroethene          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,2-Dichloroethane          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,1-Dichloroethane          | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| cis-1,2-Dichloroethene      | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| trans-1,2-Dichloroethene    | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1,2-Dichloropropane         | mg/kg | 1    | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     | CLEANING SHED<br>CH2M HILL<br>BH37 | CLEANING SHED<br>CH2M HILL<br>BH37 | CLEANING SHED<br>CH2M HILL<br>TP40<br>0.00-0.10 | CLEANING SHED<br>CH2M HILL<br>BH41 | CLEANING SHED<br>CH2M HILL<br>BH41 |
|-----------------------------|-------|-----|------------------------------------|------------------------------------|-------------------------------------------------|------------------------------------|------------------------------------|
| Consultant                  |       |     |                                    |                                    |                                                 |                                    |                                    |
| Sample Location             |       |     |                                    |                                    |                                                 |                                    |                                    |
| Sample Depth                |       |     |                                    |                                    |                                                 |                                    |                                    |
| Analyte                     | Units | LOR |                                    |                                    |                                                 |                                    |                                    |
| 1.3-Dichloropropane         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 2.2-Dichloropropane         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.1-Dichloropropylene       | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| cis-1.3-Dichloropropylene   | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| trans-1.3-Dichloropropylene | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Ethylbenzene                | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Hexachlorobutadiene         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Isopropylene                | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| p-Isopropyltoluene          | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Methylene chloride          | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Naphthalene                 | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| n-Propylbenzene             | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Styrene                     | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.1.1.2-Tetrachloroethane   | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.1.2.2-Tetrachloroethane   | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Tetrachloroethene           | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Toluene                     | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.2.3-Trichlorobenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.2.4-Trichlorobenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.1.1-Trichloroethane       | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.1.2-Trichloroethane       | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Trichloroethene             | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Trichlorofluoromethane      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.2.3-Trichloropropane      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.2.4-Trimethylbenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| 1.3.5-Trimethylbenzene      | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| Vinyl chloride              | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| ortho-Xylene                | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| meta- & para-Xylene         | mg/kg | 1   | 0.5                                | na                                 | 0.5                                             | na                                 | 0.5                                |
| TPH                         |       |     |                                    |                                    |                                                 |                                    |                                    |
| C6-C9                       | mg/kg | 10  | na                                 | na                                 | na                                              | na                                 | na                                 |
| C10-C14                     | mg/kg | 10  | na                                 | na                                 | na                                              | na                                 | na                                 |
| C15-C28                     | mg/kg | 50  | na                                 | na                                 | na                                              | na                                 | na                                 |
| C29-C36                     | mg/kg | 50  | na                                 | na                                 | na                                              | na                                 | na                                 |
| Total C10-C36               | mg/kg |     | na                                 | na                                 | na                                              | na                                 | na                                 |
| BTEX                        |       |     |                                    |                                    |                                                 |                                    |                                    |
| Benzene                     | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                                            | 0.25                               | 0.25                               |
| Toluene                     | mg/kg | 1   | 0.5                                | 0.5                                | 0.5                                             | 0.5                                | 0.5                                |
| Ethylbenzene                | mg/kg | 1   | 0.5                                | 0.5                                | 0.5                                             | 0.5                                | 0.5                                |
| Total Xylenes               | mg/kg | 3   | 1.5                                | 1.5                                | 1.5                                             | 1.5                                | 1.5                                |
| PAHs                        |       |     |                                    |                                    |                                                 |                                    |                                    |
| Naphthalene                 | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                                            | 0.5                                | 0.25                               |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |       |     | CLEANING SHED<br>CH2M HILL<br>BH37 | CLEANING SHED<br>CH2M HILL<br>BH37 | CLEANING SHED<br>CH2M HILL<br>TP40<br>0.00-0.10 | CLEANING SHED<br>CH2M HILL<br>BH41 | CLEANING SHED<br>CH2M HILL<br>BH41 |
|---------------------------------|-------|-----|------------------------------------|------------------------------------|-------------------------------------------------|------------------------------------|------------------------------------|
| Consultant                      |       |     |                                    |                                    |                                                 |                                    |                                    |
| Sample Location                 |       |     |                                    |                                    |                                                 |                                    |                                    |
| Sample Depth                    |       |     |                                    |                                    |                                                 |                                    |                                    |
| Analyte                         | Units | LOR | Fill                               | Fill                               | Fill                                            | Fill                               | Fill                               |
| Acenaphthylene                  | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                                            | 1                                  | 0.25                               |
| Acenaphthene                    | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                                            | 0.25                               | 0.25                               |
| Fluorene                        | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                                            | 0.8                                | 0.25                               |
| Phenanthrene                    | mg/kg | 0.5 | 0.7                                | 2.2                                | 1.4                                             | 5.8                                | 1                                  |
| Anthracene                      | mg/kg | 0.5 | 0.25                               | 0.6                                | 0.25                                            | 1.6                                | 0.25                               |
| Fluoranthene                    | mg/kg | 0.5 | 0.8                                | 4.6                                | 3.2                                             | 8.4                                | 1.4                                |
| Pyrene                          | mg/kg | 0.5 | 0.8                                | 5                                  | 3.6                                             | 8.8                                | 1.4                                |
| Benzo(a)anthracene              | mg/kg | 0.5 | 0.25                               | 3.4                                | 2.2                                             | 5                                  | 0.8                                |
| Chrysene                        | mg/kg | 0.5 | 0.25                               | 2                                  | 1.4                                             | 3.6                                | 0.6                                |
| Benzo(b)&(k)fluoranthene        | mg/kg | 1   | 0.25                               | 6                                  | 4                                               | 8                                  | 1                                  |
| Benzo(a)pyrene                  | mg/kg | 0.5 | 0.25                               | 4.2                                | 2.2                                             | 4.6                                | 0.5                                |
| Indeno(1.2.3-cd)pyrene          | mg/kg | 0.5 | 0.25                               | 3.8                                | 2                                               | 3.4                                | 0.25                               |
| Dibenz(a,h)anthracene           | mg/kg | 0.5 | 0.25                               | 0.25                               | 0.25                                            | 0.25                               | 0.25                               |
| Benzo(g,h,i)perylene            | mg/kg | 0.5 | 0.25                               | 2.2                                | 1.2                                             | 1.8                                | 0.25                               |
| Total PAHs                      | mg/kg |     | 2.4                                | 34                                 | 21                                              | 52                                 | 6.6                                |
| <b>Phenols</b>                  |       |     |                                    |                                    |                                                 |                                    |                                    |
| Phenol                          | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2-Chlorophenol                  | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2-Methylphenol                  | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 3-Methylphenol & 4-Methylphenol | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2-Nitrophenol                   | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2,4-Dimethylphenol              | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2,4-Dichlorophenol              | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2,6-Dichlorophenol              | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 4-Chloro-3-methylphenol         | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2,4,5-Trichlorophenol           | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2,4,6-Trichlorophenol           | mg/kg | 5   | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2,4-Dinitrophenol               | mg/kg | 20  | na                                 | na                                 | na                                              | na                                 | na                                 |
| 4-Nitrophenol                   | mg/kg | 10  | na                                 | na                                 | na                                              | na                                 | na                                 |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | 10  | na                                 | na                                 | na                                              | na                                 | na                                 |
| 4,6-Dinitro-2-methylphenol      | mg/kg | 20  | na                                 | na                                 | na                                              | na                                 | na                                 |
| Pentachlorophenol               | mg/kg | 10  | na                                 | na                                 | na                                              | na                                 | na                                 |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg | 20  | na                                 | na                                 | na                                              | na                                 | na                                 |
| <b>OCPs</b>                     |       |     |                                    |                                    |                                                 |                                    |                                    |
| HCB                             | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |
| alpha-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |
| gamma-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |
| Heptachlor                      | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |
| Aldrin                          | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |
| Dieldrin                        | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |
| beta-BHC                        | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |
| delta-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                              | na                                 | na                                 |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |  |       | CLEANING SHED<br>CH2M HILL<br>BH37<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH37<br>0.5<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP40<br>0.00-0.10<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH41<br>0.2<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH41<br>0.9<br>Fill |
|----------------------|--|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Consultant           |  | Units | LOR                                               |                                                   |                                                         |                                                   |                                                   |
| Sample Location      |  |       |                                                   |                                                   |                                                         |                                                   |                                                   |
| Sample Depth         |  |       |                                                   |                                                   |                                                         |                                                   |                                                   |
| Analyte              |  |       |                                                   |                                                   |                                                         |                                                   |                                                   |
| Oxychlorane          |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Heptachlor epoxide   |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Endosulphan I        |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Chlordane-trans      |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Chlordane-cis        |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| trans-Nonachlor      |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| 4,4'-DDE             |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Endrin               |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| 4,4'-DDD             |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Endosulphan II       |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| 4,4'-DDT             |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Endosulphan sulphate |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Methoxychlor         |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| Total OCPs           |  | mg/kg | 0.1                                               | na                                                | na                                                      | na                                                | na                                                |
| <b>PCBs</b>          |  |       |                                                   |                                                   |                                                         |                                                   |                                                   |
| Arochlor 1016        |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |
| Arochlor 1221        |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |
| Arochlor 1232        |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |
| Arochlor 1242        |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |
| Arochlor 1248        |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |
| Arochlor 1254        |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |
| Arochlor 1260        |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |
| Total PCBs           |  | mg/kg | 1                                                 | na                                                | na                                                      | na                                                | na                                                |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |       | CLEANING SHED<br>CH2M HILL<br>BH43<br>0.4<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH43<br>0.7<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP44<br>0.20-0.30<br>Fill | Count | Maximum | Minimum |
|-----------------------------|-------|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|-------|---------|---------|
| Consultant                  |       | Units | LOR                                               |                                                   |                                                         |       |         |         |
| Sample Location             |       |       |                                                   |                                                   |                                                         |       |         |         |
| Sample Depth                |       |       |                                                   |                                                   |                                                         |       |         |         |
| Analyte                     |       |       |                                                   |                                                   |                                                         |       |         |         |
| <b>HEAVY METALS</b>         |       |       |                                                   |                                                   |                                                         |       |         |         |
| Arsenic                     | mg/kg | 5     | 2.5                                               | 2.5                                               | 17                                                      | 40    | 160     | 2.5     |
| Cadmium                     | mg/kg | 0.5   | 1.4                                               | 0.25                                              | 0.7                                                     | 40    | 3       | 0.25    |
| Chromium                    | mg/kg | 5     | 7                                                 | 13                                                | 8                                                       | 40    | 180     | 2.5     |
| Copper                      | mg/kg | 5     | 95                                                | 9                                                 | 37                                                      | 40    | 3600    | 2.5     |
| Nickel                      | mg/kg | 2     | 23                                                | 1                                                 | 16                                                      | 40    | 150     | 1       |
| Lead                        | mg/kg | 5     | 160                                               | 54                                                | 620                                                     | 40    | 930     | 2.5     |
| Zinc                        | mg/kg | 5     | 330                                               | 65                                                | 230                                                     | 40    | 970     | 2.5     |
| Mercury                     | mg/kg | 0.05  | 0.09                                              | 0.08                                              | 0.29                                                    | 40    | 1.37    | 0.025   |
| Total Cyanide               | mg/kg | 0.5   | na                                                | na                                                | na                                                      | 0     | 0       | 0       |
| <b>VOCs</b>                 |       |       |                                                   |                                                   |                                                         |       |         |         |
| Benzene                     | mg/kg | 0.5   | na                                                | 0.25                                              | na                                                      | 15    | 0.25    | 0.25    |
| Bromobenzene                | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Bromochloromethane          | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Bromodichloromethane        | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Bromoform                   | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Bromomethane                | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| n-Butylbenzene              | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| sec-Butylbenzene            | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| tert-Butylbenzene           | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Carbon Tetrachloride        | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| cis-1,2-Dichloroethene      | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Chlorobenzene               | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Chloroethane                | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Chloroform                  | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Chloromethane               | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 2-Chlorotoluene             | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 4-Chlorotoluene             | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Dibromochloromethane        | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Dibromomethane              | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,2-Dichlorobenzene         | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,3-Dichlorobenzene         | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,4-Dichlorobenzene         | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Dichlorodifluoromethane     | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,1-Dichloroethene          | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,2-Dichloroethane          | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,1-Dichloroethane          | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| cis-1,2-Dichloroethene      | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| trans-1,2-Dichloroethene    | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1,2-Dichloropropane         | mg/kg | 1     | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |  |       |     | CLEANING SHED<br>CH2M HILL<br>BH43<br>0.4<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH43<br>0.7<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP44<br>0.20-0.30<br>Fill | Count | Maximum | Minimum |
|-----------------------------|--|-------|-----|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|-------|---------|---------|
| Consultant                  |  | Units | LOR |                                                   |                                                   |                                                         |       |         |         |
| Sample Location             |  |       |     |                                                   |                                                   |                                                         |       |         |         |
| Sample Depth                |  |       |     |                                                   |                                                   |                                                         |       |         |         |
| Analyte                     |  |       |     |                                                   |                                                   |                                                         |       |         |         |
| 1.3-Dichloropropane         |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 2.2-Dichloropropane         |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.1-Dichloropropane         |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| cis-1.3-Dichloropropylene   |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| trans-1.3-Dichloropropylene |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Ethylbenzene                |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Hexachlorobutadiene         |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Isopropylene                |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| p-Isopropyltoluene          |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Methylene chloride          |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Naphthalene                 |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| n-Propylbenzene             |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Styrene                     |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.1.1.2-Tetrachloroethane   |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.1.2.2-Tetrachloroethane   |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Tetrachloroethene           |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Toluene                     |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.2.3-Trichlorobenzene      |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.2.4-Trichlorobenzene      |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.1.1-Trichloroethane       |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.1.2-Trichloroethane       |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Trichloroethene             |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Trichlorofluoromethane      |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.2.3-Trichloropropane      |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.2.4-Trimethylbenzene      |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| 1.3.5-Trimethylbenzene      |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| Vinyl chloride              |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| ortho-Xylene                |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| meta- & para-Xylene         |  | mg/kg | 1   | na                                                | 0.5                                               | na                                                      | 15    | 0.5     | 0.5     |
| TPH                         |  |       |     |                                                   |                                                   |                                                         |       |         |         |
| C6-C9                       |  | mg/kg | 10  | na                                                | na                                                | na                                                      | 3     | 5       | 5       |
| C10-C14                     |  | mg/kg | 10  | na                                                | na                                                | na                                                      | 3     | 5       | 5       |
| C15-C28                     |  | mg/kg | 50  | na                                                | na                                                | na                                                      | 3     | 340     | 100     |
| C29-C36                     |  | mg/kg | 50  | na                                                | na                                                | na                                                      | 3     | 220     | 60      |
| Total C10-C36               |  | mg/kg |     | na                                                | na                                                | na                                                      | 3     | 565     | 165     |
| BTEX                        |  |       |     |                                                   |                                                   |                                                         |       |         |         |
| Benzene                     |  | mg/kg | 0.5 | 0.25                                              | 0.25                                              | 15                                                      | 29    | 15      | 0.25    |
| Toluene                     |  | mg/kg | 1   | 2                                                 | 0.5                                               | 16                                                      | 29    | 16      | 0.5     |
| Ethylbenzene                |  | mg/kg | 1   | 0.5                                               | 0.5                                               | 0.5                                                     | 29    | 0.5     | 0.5     |
| Total Xylenes               |  | mg/kg | 3   | 1.5                                               | 1.5                                               | 10                                                      | 29    | 10      | 1.5     |
| PAHs                        |  |       |     |                                                   |                                                   |                                                         |       |         |         |
| Naphthalene                 |  | mg/kg | 0.5 | 0.25                                              | 0.25                                              | 190                                                     | 39    | 190     | 0.25    |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                            |       |     | CLEANING SHED<br>CH2M HILL<br>BH43 | CLEANING SHED<br>CH2M HILL<br>BH43 | CLEANING SHED<br>CH2M HILL<br>TP44 | Count | Maximum | Minimum |
|---------------------------------|-------|-----|------------------------------------|------------------------------------|------------------------------------|-------|---------|---------|
| Consultant                      |       |     |                                    |                                    |                                    |       |         |         |
| Sample Location                 |       |     |                                    |                                    |                                    |       |         |         |
| Sample Depth                    |       |     |                                    |                                    |                                    |       |         |         |
| Analyte                         | Units | LOR |                                    |                                    | 0.20-0.30<br>Fill                  |       |         |         |
| Acenaphthylene                  | mg/kg | 0.5 | 0.25                               | 0.25                               | 58                                 | 39    | 58      | 0.25    |
| Acenaphthene                    | mg/kg | 0.5 | 0.25                               | 0.25                               | 9.4                                | 39    | 9.4     | 0.25    |
| Fluorene                        | mg/kg | 0.5 | 0.25                               | 0.25                               | 35                                 | 39    | 35      | 0.25    |
| Phenanthrene                    | mg/kg | 0.5 | 3.4                                | 0.25                               | 400                                | 39    | 400     | 0.25    |
| Anthracene                      | mg/kg | 0.5 | 0.9                                | 0.25                               | 100                                | 39    | 100     | 0.25    |
| Fluoranthene                    | mg/kg | 0.5 | 7                                  | 0.25                               | 360                                | 39    | 360     | 0.25    |
| Pyrene                          | mg/kg | 0.5 | 10                                 | 0.25                               | 450                                | 39    | 450     | 0.25    |
| Benzo(a)anthracene              | mg/kg | 0.5 | 6.8                                | 0.25                               | 200                                | 39    | 200     | 0.25    |
| Chrysene                        | mg/kg | 0.5 | 4.8                                | 0.25                               | 150                                | 39    | 150     | 0.25    |
| Benzo(b)&(k)fluoranthene        | mg/kg | 1   | 17                                 | 0.25                               | 200                                | 39    | 200     | 0.25    |
| Benzo(a)pyrene                  | mg/kg | 0.5 | 13                                 | 0.25                               | 150                                | 39    | 150     | 0.25    |
| Indeno(1,2,3-cd)pyrene          | mg/kg | 0.5 | 11                                 | 0.25                               | 90                                 | 39    | 90      | 0.25    |
| Dibenz(a,h)anthracene           | mg/kg | 0.5 | 1.2                                | 0.25                               | 23                                 | 39    | 23      | 0.25    |
| Benzo(g,h,i)perylene            | mg/kg | 0.5 | 8.2                                | 0.25                               | 57                                 | 39    | 57      | 0.25    |
| Total PAHs                      | mg/kg |     | 83                                 | 0.25                               | 2500                               | 39    | 2500    | 0.25    |
| <b>Phenols</b>                  |       |     |                                    |                                    |                                    |       |         |         |
| Phenol                          | mg/kg | 5   | na                                 | na                                 | 19                                 | 3     | 19      | 2.5     |
| 2-Chlorophenol                  | mg/kg | 5   | na                                 | na                                 | 2.5                                | 3     | 2.5     | 2.5     |
| 2-Methylphenol                  | mg/kg | 5   | na                                 | na                                 | 13                                 | 3     | 13      | 2.5     |
| 3-Methylphenol & 4-Methylphenol | mg/kg | 5   | na                                 | na                                 | 32                                 | 3     | 32      | 2.5     |
| 2-Nitrophenol                   | mg/kg | 5   | na                                 | na                                 | 2.5                                | 3     | 2.5     | 2.5     |
| 2,4-Dimethylphenol              | mg/kg | 5   | na                                 | na                                 | 10                                 | 3     | 10      | 2.5     |
| 2,4-Dichlorophenol              | mg/kg | 5   | na                                 | na                                 | 2.5                                | 3     | 2.5     | 2.5     |
| 2,6-Dichlorophenol              | mg/kg | 5   | na                                 | na                                 | 2.5                                | 3     | 2.5     | 2.5     |
| 4-Chloro-3-methylphenol         | mg/kg | 5   | na                                 | na                                 | 2.5                                | 3     | 2.5     | 2.5     |
| 2,4,5-Trichlorophenol           | mg/kg | 5   | na                                 | na                                 | 2.5                                | 3     | 2.5     | 2.5     |
| 2,4,6-Trichlorophenol           | mg/kg | 5   | na                                 | na                                 | 2.5                                | 3     | 2.5     | 2.5     |
| 2,4-Dinitrophenol               | mg/kg | 20  | na                                 | na                                 | 10                                 | 3     | 10      | 10      |
| 4-Nitrophenol                   | mg/kg | 10  | na                                 | na                                 | 5                                  | 3     | 5       | 5       |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | 10  | na                                 | na                                 | 5                                  | 3     | 5       | 5       |
| 4,6-Dinitro-2-methylphenol      | mg/kg | 20  | na                                 | na                                 | 10                                 | 3     | 10      | 10      |
| Pentachlorophenol               | mg/kg | 10  | na                                 | na                                 | 5                                  | 3     | 5       | 5       |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg | 20  | na                                 | na                                 | 10                                 | 3     | 10      | 10      |
| <b>OCPs</b>                     |       |     |                                    |                                    |                                    |       |         |         |
| HCB                             | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |
| alpha-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |
| gamma-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |
| Heptachlor                      | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |
| Aldrin                          | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |
| Dieldrin                        | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |
| beta-BHC                        | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |
| delta-BHC                       | mg/kg | 0.1 | na                                 | na                                 | na                                 | 3     | 0.05    | 0.05    |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |  |       | CLEANING SHED<br>CH2M HILL<br>BH43<br>0.4<br>Fill | CLEANING SHED<br>CH2M HILL<br>BH43<br>0.7<br>Fill | CLEANING SHED<br>CH2M HILL<br>TP44<br>0.20-0.30<br>Fill | Count | Maximum | Minimum |
|----------------------|--|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|-------|---------|---------|
| Consultant           |  | Units | LOR                                               |                                                   |                                                         |       |         |         |
| Sample Location      |  |       |                                                   |                                                   |                                                         |       |         |         |
| Sample Depth         |  |       |                                                   |                                                   |                                                         |       |         |         |
| Analyte              |  |       |                                                   |                                                   |                                                         |       |         |         |
| Oxychlorane          |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Heptachlor epoxide   |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Endosulphan I        |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Chlordane-trans      |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Chlordane-cis        |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| trans-Nonachlor      |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| 4,4'-DDE             |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Endrin               |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| 4,4'-DDD             |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Endosulphan II       |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| 4,4'-DDT             |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Endosulphan sulphate |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Methoxychlor         |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 0.05    | 0.05    |
| Total OCPs           |  | mg/kg | 0.1                                               | na                                                | na                                                      | 3     | 1.05    | 1.05    |
| <b>PCBs</b>          |  |       |                                                   |                                                   |                                                         |       |         |         |
| Arochlor 1016        |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0.5     | 0.5     |
| Arochlor 1221        |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0.5     | 0.5     |
| Arochlor 1232        |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0.5     | 0.5     |
| Arochlor 1242        |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0.5     | 0.5     |
| Arochlor 1248        |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0.5     | 0.5     |
| Arochlor 1254        |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0.5     | 0.5     |
| Arochlor 1260        |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0.5     | 0.5     |
| Total PCBs           |  | mg/kg | 1                                                 | na                                                | na                                                      | 3     | 0       | 0       |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      | Average | SD    | Students t a = 0.05 | CV   | 95% UCL | Site criteria | Hotspot criteria |
|-----------------------------|-------|------|---------|-------|---------------------|------|---------|---------------|------------------|
| Consultant                  |       |      |         |       |                     |      |         |               |                  |
| Sample Location             |       |      |         |       |                     |      |         |               |                  |
| Sample Depth                |       |      |         |       |                     |      |         |               |                  |
| Analyte                     | Units | LOR  |         |       |                     |      |         |               |                  |
| <b>HEAVY METALS</b>         |       |      |         |       |                     |      |         |               |                  |
| Arsenic                     | mg/kg | 5    | 26.4    | 32.1  | 1.68                | 1.22 | 35      | 500           | 1250             |
| Cadmium                     | mg/kg | 0.5  | 0.6     | 0.6   | 1.68                | 0.98 | 1       | 100           | 250              |
| Chromium                    | mg/kg | 5    | 18.5    | 28.1  | 1.68                | 1.52 | 24.7    | 500           | 1250             |
| Copper                      | mg/kg | 5    | 226.4   | 559.1 | 1.68                | 2.47 | 375     | 5000          | 12500            |
| Nickel                      | mg/kg | 2    | 20.1    | 24.4  | 1.68                | 1.22 | 27      | 3000          | 7500             |
| Lead                        | mg/kg | 5    | 169.2   | 176.8 | 1.68                | 1.05 | 216     | 1500          | 3750             |
| Zinc                        | mg/kg | 5    | 200.4   | 201.3 | 1.68                | 1.00 | 254     | 35000         | 87500            |
| Mercury                     | mg/kg | 0.05 | 0.2     | 0.3   | 1.68                | 1.16 | 0       | 75            | 188              |
| Total Cyanide               | mg/kg | 0.5  | na      | na    | na                  | na   | na      | 2500          | 6250             |
| <b>VOCs</b>                 |       |      |         |       |                     |      |         |               |                  |
| Benzene                     | mg/kg | 0.5  | 0.3     | 0.0   | 1.75                | 0.00 | 0       | 1             | 3                |
| Bromobenzene                | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| Bromochloromethane          | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| Bromodichloromethane        | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 2.4           | 6                |
| Bromoform                   | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 310           | 775              |
| Bromomethane                | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 13            | 33               |
| n-Butylbenzene              | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| sec-Butylbenzene            | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| tert-Butylbenzene           | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| Carbon Tetrachloride        | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 0.53          | 1                |
| cis-1,2-Dichloroethene      | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 150           | 375              |
| Chlorobenzene               | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 450           | 1125             |
| Chloroethane                | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| Chloroform                  | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 10            | 25               |
| Chloromethane               | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 2.7           | 7                |
| 2-Chlorotoluene             | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 570           | 1425             |
| 4-Chlorotoluene             | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| Dibromochloromethane        | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 2.7           | 7                |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 4             | 10               |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| Dibromomethane              | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 240           | 600              |
| 1,2-Dichlorobenzene         | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 370           | 925              |
| 1,3-Dichlorobenzene         | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 52            | 130              |
| 1,4-Dichlorobenzene         | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 8.1           | 20               |
| Dichlorodifluoromethane     | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| 1,1-Dichloroethene          | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 0.12          | 0                |
| 1,2-Dichloroethane          | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 4             | 10               |
| 1,1-Dichloroethane          | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 50            | 125              |
| cis-1,2-Dichloroethene      | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 150           | 375              |
| trans-1,2-Dichloroethene    | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | n/a           | n/a              |
| 1,2-Dichloropropane         | mg/kg | 1    | 0.5     | 0.0   | 1.75                | 0.00 | 1       | 0.77          | 2                |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area       |                             |              | Average | SD    | Students t a = 0.05 | CV   | 95% UCL | Site criteria | Hotspot criteria |
|------------|-----------------------------|--------------|---------|-------|---------------------|------|---------|---------------|------------------|
| Consultant | Sample Location             | Sample Depth | Units   | LOR   |                     |      |         |               |                  |
| Analyte    |                             |              |         |       |                     |      |         |               |                  |
| TPH        | 1.3-Dichloropropane         | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | 2.2-Dichloropropane         | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | 1.1-Dichloropropylene       | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | cis-1.3-Dichloropropylene   | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | trans-1.3-Dichloropropylene | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | Ethylbenzene                | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 3.1              |
|            | Hexachlorobutadiene         | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 32               |
|            | Isopropylene                | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | p-Isopropyltoluene          | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | Methylene chloride          | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 20               |
|            | Naphthalene                 | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | n-Propylbenzene             | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | Styrene                     | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 100              |
|            | 1.1.1.2-Tetrachloroethane   | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 7                |
|            | 1.1.2.2-Tetrachloroethane   | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 0.9              |
|            | Tetrachloroethene           | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 4                |
|            | Toluene                     | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 1.4              |
|            | 1.2.3-Trichlorobenzene      | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | 1.2.4-Trichlorobenzene      | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 3000             |
|            | 1.1.1-Trichloroethane       | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 50               |
| BTX        | 1.1.2-Trichloroethane       | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 50               |
|            | Trichloroethene             | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 60               |
|            | Trichlorofluoromethane      | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 2000             |
|            | 1.2.3-Trichloropropane      | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 0.0031           |
|            | 1.2.4-Trimethylbenzene      | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | 1.3.5-Trimethylbenzene      | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 70               |
|            | Vinyl chloride              | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | 0.1              |
|            | ortho-Xylene                | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | meta- & para-Xylene         | mg/kg        | 1       | 0.5   | 0.0                 | 1.75 | 0.00    | 1             | n/a              |
|            | C6-C9                       | mg/kg        | 10      | 5.0   | 0.0                 | 2.35 | 0.00    | 5             | 65               |
|            | C10-C14                     | mg/kg        | 10      | 5.0   | 0.0                 | 2.35 | 0.00    | 5             | n/a              |
|            | C15-C28                     | mg/kg        | 50      | 240.0 | 124.9               | 2.35 | 0.52    | 410           | n/a              |
|            | C29-C36                     | mg/kg        | 50      | 166.7 | 92.4                | 2.35 | 0.55    | 292           | n/a              |
|            | Total C10-C36               | mg/kg        |         | 411.7 | 215.7               | 2.35 | 0.52    | 705           | 1000             |
|            | BTEX                        | mg/kg        |         |       |                     |      |         |               | 2500             |
| PAHs       | Benzene                     | mg/kg        | 0.5     | 0.8   | 2.1                 | 1.70 | 2.82    | 0.53          | 1                |
|            | Toluene                     | mg/kg        | 1       | 1.1   | 2.0                 | 1.70 | 1.82    | 0.98          | 1.4              |
|            | Ethylbenzene                | mg/kg        | 1       | 0.5   | 0.0                 | 1.70 | 0.00    | 1             | 3.1              |
|            | Total Xylenes               | mg/kg        | 3       | 1.8   | 1.6                 | 1.70 | 0.88    | 2             | 14               |
|            | Naphthalene                 | mg/kg        | 0.5     | 5.2   | 30.4                | 1.68 | 5.83    | 13            | n/a              |



Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |       |     | Average | SD  | Students t a = 0.05 | CV   | 95% UCL | Site criteria | Hotspot criteria |
|----------------------|-------|-----|---------|-----|---------------------|------|---------|---------------|------------------|
| Consultant           |       |     |         |     |                     |      |         |               |                  |
| Sample Location      |       |     |         |     |                     |      |         |               |                  |
| Sample Depth         |       |     |         |     |                     |      |         |               |                  |
| Analyte              | Units | LOR |         |     |                     |      |         |               |                  |
| Oxychlorane          | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| Heptachlor epoxide   | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| Endosulphan I        | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| Chlordane-trans      | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | 250.00        | 625              |
| Chlordane-cis        | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | 250.00        | 625              |
| trans-Nonachlor      | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| 4,4'-DDE             | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| Endrin               | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| 4,4'-DDD             | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| Endosulphan II       | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| 4,4'-DDT             | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| Endosulphan sulphate | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | 1000          | 2500             |
| Methoxychlor         | mg/kg | 0.1 | 0.1     | 0.0 | 2.35                | 0.00 | 0       | n/a           | n/a              |
| Total OCPs           | mg/kg | 0.1 | 1.1     | 0.0 | 2.35                | 0.00 | 1       | 40            | 100              |
| <b>PCBs</b>          |       |     |         |     |                     |      |         |               |                  |
| Arochlor 1016        | mg/kg | 1   | 0.5     | 0.0 | 2.35                | 0.00 | 1       | n/a           | n/a              |
| Arochlor 1221        | mg/kg | 1   | 0.5     | 0.0 | 2.35                | 0.00 | 1       | n/a           | n/a              |
| Arochlor 1232        | mg/kg | 1   | 0.5     | 0.0 | 2.35                | 0.00 | 1       | n/a           | n/a              |
| Arochlor 1242        | mg/kg | 1   | 0.5     | 0.0 | 2.35                | 0.00 | 1       | n/a           | n/a              |
| Arochlor 1248        | mg/kg | 1   | 0.5     | 0.0 | 2.35                | 0.00 | 1       | n/a           | n/a              |
| Arochlor 1254        | mg/kg | 1   | 0.5     | 0.0 | 2.35                | 0.00 | 1       | n/a           | n/a              |
| Arochlor 1260        | mg/kg | 1   | 0.5     | 0.0 | 2.35                | 0.00 | 1       | n/a           | n/a              |
| Total PCBs           | mg/kg |     | 0.0     | 0.0 | 2.35                | na   | 0       | 50            | 125              |

n/a = not applicable

LOR = Laboratory Limits of Reporting

na = not selected for analysis

nd = not detected above laboratory LOR

Note: Results reported as non detect have been replaced with half the LOR for statistical purp

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |      |  | UCL after removal of hotspots | SD  |
|-----------------------------|-------|------|--|-------------------------------|-----|
| Consultant                  |       |      |  |                               |     |
| Sample Location             |       |      |  |                               |     |
| Sample Depth                |       |      |  |                               |     |
| Analyte                     | Units | LOR  |  |                               |     |
| <b>HEAVY METALS</b>         |       |      |  |                               |     |
| Arsenic                     | mg/kg | 5    |  | n/a                           | n/a |
| Cadmium                     | mg/kg | 0.5  |  | n/a                           | n/a |
| Chromium                    | mg/kg | 5    |  | n/a                           | n/a |
| Copper                      | mg/kg | 5    |  | n/a                           | n/a |
| Nickel                      | mg/kg | 2    |  | n/a                           | n/a |
| Lead                        | mg/kg | 5    |  | n/a                           | n/a |
| Zinc                        | mg/kg | 5    |  | n/a                           | n/a |
| Mercury                     | mg/kg | 0.05 |  | n/a                           | n/a |
| Total Cyanide               | mg/kg | 0.5  |  | n/a                           | n/a |
| <b>VOC's</b>                |       |      |  |                               |     |
| Benzene                     | mg/kg | 0.5  |  | n/a                           | n/a |
| Bromobenzene                | mg/kg | 1    |  | n/a                           | n/a |
| Bromochloromethane          | mg/kg | 1    |  | n/a                           | n/a |
| Bromodichloromethane        | mg/kg | 1    |  | n/a                           | n/a |
| Bromoform                   | mg/kg | 1    |  | n/a                           | n/a |
| Bromomethane                | mg/kg | 1    |  | n/a                           | n/a |
| n-Butylbenzene              | mg/kg | 1    |  | n/a                           | n/a |
| sec-Butylbenzene            | mg/kg | 1    |  | n/a                           | n/a |
| tert-Butylbenzene           | mg/kg | 1    |  | n/a                           | n/a |
| Carbon Tetrachloride        | mg/kg | 1    |  | n/a                           | n/a |
| cis-1,2-Dichloroethene      | mg/kg | 1    |  | n/a                           | n/a |
| Chlorobenzene               | mg/kg | 1    |  | n/a                           | n/a |
| Chloroethane                | mg/kg | 1    |  | n/a                           | n/a |
| Chloroform                  | mg/kg | 1    |  | n/a                           | n/a |
| Chloromethane               | mg/kg | 1    |  | n/a                           | n/a |
| 2-Chlorotoluene             | mg/kg | 1    |  | n/a                           | n/a |
| 4-Chlorotoluene             | mg/kg | 1    |  | n/a                           | n/a |
| Dibromochloromethane        | mg/kg | 1    |  | n/a                           | n/a |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    |  | n/a                           | n/a |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    |  | n/a                           | n/a |
| Dibromomethane              | mg/kg | 1    |  | n/a                           | n/a |
| 1,2-Dichlorobenzene         | mg/kg | 1    |  | n/a                           | n/a |
| 1,3-Dichlorobenzene         | mg/kg | 1    |  | n/a                           | n/a |
| 1,4-Dichlorobenzene         | mg/kg | 1    |  | n/a                           | n/a |
| Dichlorodifluoromethane     | mg/kg | 1    |  | n/a                           | n/a |
| 1,1-Dichloroethene          | mg/kg | 1    |  | n/a                           | n/a |
| 1,2-Dichloroethane          | mg/kg | 1    |  | n/a                           | n/a |
| 1,1-Dichloroethane          | mg/kg | 1    |  | n/a                           | n/a |
| cis-1,2-Dichloroethene      | mg/kg | 1    |  | n/a                           | n/a |
| trans-1,2-Dichloroethene    | mg/kg | 1    |  | n/a                           | n/a |
| 1,2-Dichloropropane         | mg/kg | 1    |  | n/a                           | n/a |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                        |       |     |  | UCL after removal of hotspots | SD   |
|-----------------------------|-------|-----|--|-------------------------------|------|
| Consultant                  |       |     |  |                               |      |
| Sample Location             |       |     |  |                               |      |
| Sample Depth                |       |     |  |                               |      |
| Analyte                     | Units | LOR |  |                               |      |
| 1,3-Dichloropropane         | mg/kg | 1   |  | n/a                           | n/a  |
| 2,2-Dichloropropane         | mg/kg | 1   |  | n/a                           | n/a  |
| 1,1-Dichloropropylene       | mg/kg | 1   |  | n/a                           | n/a  |
| cis-1,3-Dichloropropylene   | mg/kg | 1   |  | n/a                           | n/a  |
| trans-1,3-Dichloropropylene | mg/kg | 1   |  | n/a                           | n/a  |
| Ethylbenzene                | mg/kg | 1   |  | n/a                           | n/a  |
| Hexachlorobutadiene         | mg/kg | 1   |  | n/a                           | n/a  |
| Isopropylene                | mg/kg | 1   |  | n/a                           | n/a  |
| p-Isopropyltoluene          | mg/kg | 1   |  | n/a                           | n/a  |
| Methylene chloride          | mg/kg | 1   |  | n/a                           | n/a  |
| Naphthalene                 | mg/kg | 1   |  | n/a                           | n/a  |
| n-Propylbenzene             | mg/kg | 1   |  | n/a                           | n/a  |
| Styrene                     | mg/kg | 1   |  | n/a                           | n/a  |
| 1,1,1,2-Tetrachloroethane   | mg/kg | 1   |  | n/a                           | n/a  |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 1   |  | n/a                           | n/a  |
| Tetrachloroethene           | mg/kg | 1   |  | n/a                           | n/a  |
| Toluene                     | mg/kg | 1   |  | n/a                           | n/a  |
| 1,2,3-Trichlorobenzene      | mg/kg | 1   |  | n/a                           | n/a  |
| 1,2,4-Trichlorobenzene      | mg/kg | 1   |  | n/a                           | n/a  |
| 1,1,1-Trichloroethane       | mg/kg | 1   |  | n/a                           | n/a  |
| 1,1,2-Trichloroethane       | mg/kg | 1   |  | n/a                           | n/a  |
| Trichloroethene             | mg/kg | 1   |  | n/a                           | n/a  |
| Trichlorofluoromethane      | mg/kg | 1   |  | n/a                           | n/a  |
| 1,2,3-Trichloropropane      | mg/kg | 1   |  | n/a                           | n/a  |
| 1,2,4-Trimethylbenzene      | mg/kg | 1   |  | n/a                           | n/a  |
| 1,3,5-Trimethylbenzene      | mg/kg | 1   |  | n/a                           | n/a  |
| Vinyl chloride              | mg/kg | 1   |  | n/a                           | n/a  |
| ortho-Xylene                | mg/kg | 1   |  | n/a                           | n/a  |
| meta- & para-Xylene         | mg/kg | 1   |  | n/a                           | n/a  |
| TPH                         |       |     |  |                               |      |
| C6-C9                       | mg/kg | 10  |  | n/a                           | n/a  |
| C10-C14                     | mg/kg | 10  |  | n/a                           | n/a  |
| C15-C28                     | mg/kg | 50  |  | n/a                           | n/a  |
| C29-C36                     | mg/kg | 50  |  | n/a                           | n/a  |
| Total C10-C36               | mg/kg |     |  | n/a                           | n/a  |
| BTEX                        |       |     |  |                               |      |
| Benzene                     | mg/kg | 0.5 |  | 0.25                          | 0    |
| Toluene                     | mg/kg | 1   |  | 0.64                          | 0.28 |
| Ethylbenzene                | mg/kg | 1   |  | n/a                           | n/a  |
| Total Xylenes               | mg/kg | 3   |  | n/a                           | n/a  |
| PAHs                        |       |     |  |                               |      |
| Naphthalene                 | mg/kg | 0.5 |  | n/a                           | n/a  |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area       |                 |              |                                 | UCL after removal of hotspots | SD    |
|------------|-----------------|--------------|---------------------------------|-------------------------------|-------|
| Consultant | Sample Location | Sample Depth | Analyte                         | Units                         | LOR   |
|            |                 |              | Acenaphthylene                  | mg/kg                         | 0.5   |
|            |                 |              | Acenaphthene                    | mg/kg                         | 0.5   |
|            |                 |              | Fluorene                        | mg/kg                         | 0.5   |
|            |                 |              | Phenanthrene                    | mg/kg                         | 0.5   |
|            |                 |              | Anthracene                      | mg/kg                         | 0.5   |
|            |                 |              | Fluoranthene                    | mg/kg                         | 0.5   |
|            |                 |              | Pyrene                          | mg/kg                         | 0.5   |
|            |                 |              | Benzo(a)anthracene              | mg/kg                         | 0.5   |
|            |                 |              | Chrysene                        | mg/kg                         | 0.5   |
|            |                 |              | Benzo(b)&(k)fluoranthene        | mg/kg                         | 1     |
|            |                 |              | Benzo(a)pyrene                  | mg/kg                         | 0.5   |
|            |                 |              | Indeno(1,2,3-cd)pyrene          | mg/kg                         | 0.5   |
|            |                 |              | Dibenz(a,h)anthracene           | mg/kg                         | 0.5   |
|            |                 |              | Benzo(g,h,i)perylene            | mg/kg                         | 0.5   |
|            |                 |              | Total PAHs                      | mg/kg                         | 29.27 |
|            |                 |              | 37.46                           |                               |       |
|            |                 |              | <b>Phenols</b>                  |                               |       |
|            |                 |              | Phenol                          | mg/kg                         | 5     |
|            |                 |              | 2-Chlorophenol                  | mg/kg                         | 5     |
|            |                 |              | 2-Methylphenol                  | mg/kg                         | 5     |
|            |                 |              | 3-Methylphenol & 4-Methylphenol | mg/kg                         | 5     |
|            |                 |              | 2-Nitrophenol                   | mg/kg                         | 5     |
|            |                 |              | 2,4-Dimethylphenol              | mg/kg                         | 5     |
|            |                 |              | 2,4-Dichlorophenol              | mg/kg                         | 5     |
|            |                 |              | 2,6-Dichlorophenol              | mg/kg                         | 5     |
|            |                 |              | 4-Chloro-3-methylphenol         | mg/kg                         | 5     |
|            |                 |              | 2,4,5-Trichlorophenol           | mg/kg                         | 5     |
|            |                 |              | 2,4,6-Trichlorophenol           | mg/kg                         | 5     |
|            |                 |              | 2,4-Dinitrophenol               | mg/kg                         | 20    |
|            |                 |              | 4-Nitrophenol                   | mg/kg                         | 10    |
|            |                 |              | 2,3,4,6-Tetrachlorophenol       | mg/kg                         | 10    |
|            |                 |              | 4,6-Dinitro-2-methylphenol      | mg/kg                         | 20    |
|            |                 |              | Pentachlorophenol               | mg/kg                         | 10    |
|            |                 |              | 4,6-Dinitro-2-sec-butyphenol    | mg/kg                         | 20    |
|            |                 |              | <b>OCPs</b>                     |                               |       |
|            |                 |              | HCB                             | mg/kg                         | 0.1   |
|            |                 |              | alpha-BHC                       | mg/kg                         | 0.1   |
|            |                 |              | gamma-BHC                       | mg/kg                         | 0.1   |
|            |                 |              | Heptachlor                      | mg/kg                         | 0.1   |
|            |                 |              | Aldrin                          | mg/kg                         | 0.1   |
|            |                 |              | Dieldrin                        | mg/kg                         | 0.1   |
|            |                 |              | beta-BHC                        | mg/kg                         | 0.1   |
|            |                 |              | delta-BHC                       | mg/kg                         | 0.1   |

Table 6.2: 95% UCL Cleaning Shed Fill Analytical Results

| Area                 |       |     |  | UCL after removal of hotspots | SD  |
|----------------------|-------|-----|--|-------------------------------|-----|
| Consultant           |       |     |  |                               |     |
| Sample Location      |       |     |  |                               |     |
| Sample Depth         |       |     |  |                               |     |
| Analyte              | Units | LOR |  |                               |     |
| Oxychlorthane        | mg/kg | 0.1 |  | n/a                           | n/a |
| Heptachlor epoxide   | mg/kg | 0.1 |  | n/a                           | n/a |
| Endosulphan I        | mg/kg | 0.1 |  | n/a                           | n/a |
| Chlordane-trans      | mg/kg | 0.1 |  | n/a                           | n/a |
| Chlordane-cis        | mg/kg | 0.1 |  | n/a                           | n/a |
| trans-Nonachlor      | mg/kg | 0.1 |  | n/a                           | n/a |
| 4,4'-DDE             | mg/kg | 0.1 |  | n/a                           | n/a |
| Endrin               | mg/kg | 0.1 |  | n/a                           | n/a |
| 4,4'-DDD             | mg/kg | 0.1 |  | n/a                           | n/a |
| Endosulphan II       | mg/kg | 0.1 |  | n/a                           | n/a |
| 4,4'-DDT             | mg/kg | 0.1 |  | n/a                           | n/a |
| Endosulphan sulphate | mg/kg | 0.1 |  | n/a                           | n/a |
| Methoxychlor         | mg/kg | 0.1 |  | n/a                           | n/a |
| Total OCPs           | mg/kg | 0.1 |  | n/a                           | n/a |
| <b>PCBs</b>          |       |     |  |                               |     |
| Arochlor 1016        | mg/kg | 1   |  | n/a                           | n/a |
| Arochlor 1221        | mg/kg | 1   |  | n/a                           | n/a |
| Arochlor 1232        | mg/kg | 1   |  | n/a                           | n/a |
| Arochlor 1242        | mg/kg | 1   |  | n/a                           | n/a |
| Arochlor 1248        | mg/kg | 1   |  | n/a                           | n/a |
| Arochlor 1254        | mg/kg | 1   |  | n/a                           | n/a |
| Arochlor 1260        | mg/kg | 1   |  | n/a                           | n/a |
| Total PCBs           | mg/kg | 1   |  | n/a                           | n/a |

n/a = not applicable  
LOR = Laboratory Limits of Reporting  
na = not selected for analysis  
nd = not detected above laboratory LOR  
Note: Results reported as non detect have been replaced with half the LOR for statistical purp

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

| Location              |  | GASWORKS AREA     |                   |                   |                   |                   |                   |                   |                   |
|-----------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Consultant            |  | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 |
| Sample Location       |  |                   |                   |                   |                   |                   |                   |                   |                   |
| Sample Depth (metres) |  | 0.00-0.10         | 3.30-3.40         | DUP9              | 0.00-0.10         | 0.20-0.30         | 0.20-0.30         | 2.50-2.60         |                   |

  

| Analyte                     | Units | LOR  | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |      |      |      |    |      |
|-----------------------------|-------|------|----------------------------------------|-----------------------------------------------------------------------------------|------|------|------|----|------|
| <b>HEAVY METALS</b>         |       |      |                                        |                                                                                   |      |      |      |    |      |
| Arsenic                     | mg/kg | 5    | 500                                    |                                                                                   | 15   | nd   | 24   | nd | nd   |
| Cadmium                     | mg/kg | 0.5  | 100                                    |                                                                                   | 0.5  | nd   | 1.4  | nd | nd   |
| Chromium                    | mg/kg | 5    | 500                                    |                                                                                   | 11   | 12   | 41   | 30 | 10   |
| Copper                      | mg/kg | 5    | 5000                                   |                                                                                   | 100  | 7    | 260  | 18 | 14   |
| Nickel                      | mg/kg | 2    | 3000                                   |                                                                                   | 17   | 2    | 30   | 3  | 3    |
| Lead                        | mg/kg | 5    | 1500                                   | 300                                                                               | 190  | 56   | 1200 | 26 | 130  |
| Zinc                        | mg/kg | 5    | 35000                                  |                                                                                   | 130  | nd   | 1100 | 23 | 9    |
| Mercury                     | mg/kg | 0.05 | 75                                     |                                                                                   | 0.13 | 0.14 | 0.57 | nd | 0.26 |
| Total Cyanide               | mg/kg | 0.5  | 2500                                   |                                                                                   | na   | na   | na   | na | nd   |
| <b>VOCs</b>                 |       |      |                                        |                                                                                   |      |      |      |    |      |
| Benzene                     | mg/kg | 0.5  |                                        | 1                                                                                 | na   | nd   | na   | na | na   |
| Bromobenzene                | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Bromochloromethane          | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Bromodichloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Bromoform                   | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Bromomethane                | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| n-Butylbenzene              | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| sec-Butylbenzene            | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| tert-Butylbenzene           | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Carbon Tetrachloride        | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| cis-1,2-Dichloroethene      | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Chlorobenzene               | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Chloroethane                | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Chloroform                  | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Chloromethane               | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| 2-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| 4-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Dibromochloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |
| Dibromomethane              | mg/kg | 1    |                                        |                                                                                   | na   | nd   | na   | na | na   |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA     |                   |                   |                   |                   |                   |
|----------|------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 |
|          |            |                 |                       | 0.00-0.10         | 3.30-3.40         | DUP9              | 0.00-0.10         | 0.20-0.30         | 2.50-2.60         |

  

| Analyte                     | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) | na | nd | na | na | na | na |
|-----------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|
| 1,2-Dichlorobenzene         | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,3-Dichlorobenzene         | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,4-Dichlorobenzene         | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| Dichlorodifluoromethane     | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,1-Dichloroethene          | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,2-Dichloroethane          | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,1-Dichloroethane          | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| cis-1,2-Dichloroethene      | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| trans-1,2-Dichloroethene    | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,2-Dichloropropane         | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,3-Dichloropropane         | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 2,2-Dichloropropane         | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| 1,1-Dichloropropylene       | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| cis-1,3-Dichloropropylene   | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| trans-1,3-Dichloropropylene | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| Ethylbenzene                | mg/kg | 1   |                                        | 3.1                                                                               | na | nd | na | na | na | na |
| Hexachlorobutadiene         | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| Isopropylene                | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| p-Isopropyltoluene          | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| Methylene chloride          | mg/kg | 1   |                                        |                                                                                   | na | nd | na | na | na | na |
| Naphthalene                 | mg/kg | 1   |                                        |                                                                                   | na | 2  | 1  | na | na | na |
| n-Propylbenzene             | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| Styrene                     | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| 1,1,1,2-Tetrachloroethane   | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| Tetrachloroethene           | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| Toluene                     | mg/kg | 1   |                                        | 1.4                                                                               | na | nd | nd | na | na | na |
| 1,2,3-Trichlorobenzene      | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| 1,2,4-Trichlorobenzene      | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| 1,1,1-Trichloroethane       | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| 1,1,2-Trichloroethane       | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |
| Trichloroethene             | mg/kg | 1   |                                        |                                                                                   | na | nd | nd | na | na | na |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

| Location              |  | GASWORKS AREA     |                   |                   |                   |                   |                   |                   |                   |
|-----------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Consultant            |  | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>SB02 | CH2M HILL<br>BH01 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 |
| Sample Location       |  |                   |                   |                   |                   |                   |                   |                   |                   |
| Sample Depth (metres) |  | 0.00-0.10         | 3.30-3.40         | DUP9              | 0.00-0.10         |                   | 0.20-0.30         |                   | 2.50-2.60         |

  

| Analyte                  | Units | LOR | NEHF - Level I<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |            |           |            |           |           |
|--------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|------------|-----------|------------|-----------|-----------|
| Trichlorofluoromethane   | mg/kg | 1   |                                        |                                                                                   | na         | nd        | na         | na        | na        |
| 1,2,3-Trichloropropane   | mg/kg | 1   |                                        |                                                                                   | na         | nd        | na         | na        | na        |
| 1,2,4-Trimethylbenzene   | mg/kg | 1   |                                        |                                                                                   | na         | nd        | na         | na        | na        |
| 1,3,5-Trimethylbenzene   | mg/kg | 1   |                                        |                                                                                   | na         | nd        | na         | na        | na        |
| Vinyl chloride           | mg/kg | 1   |                                        |                                                                                   | na         | nd        | na         | na        | na        |
| ortho-Xylene             | mg/kg | 1   |                                        | 14                                                                                | na         | nd        | na         | na        | na        |
| meta- & para-Xylene      | mg/kg | 1   |                                        |                                                                                   | na         | nd        | na         | na        | na        |
| <b>TPH</b>               |       |     |                                        |                                                                                   |            |           |            |           |           |
| C6-C9                    | mg/kg | 10  |                                        | 65                                                                                | nd         | na        | na         | na        | 12        |
| C10-C14                  | mg/kg | 10  |                                        |                                                                                   | 20         | na        | na         | na        | 50        |
| C15-C28                  | mg/kg | 50  |                                        |                                                                                   | 340        | na        | na         | na        | nd        |
| C29-C36                  | mg/kg | 50  |                                        |                                                                                   | 160        | na        | na         | na        | nd        |
| <b>Total C10-C36</b>     | mg/kg |     |                                        | 1000                                                                              | <b>520</b> | <b>na</b> | <b>na</b>  | <b>na</b> | <b>50</b> |
| <b>BTEX</b>              |       |     |                                        |                                                                                   |            |           |            |           |           |
| Benzene                  | mg/kg | 0.5 |                                        | 1                                                                                 | nd         | nd        | na         | na        | nd        |
| Toluene                  | mg/kg | 1   |                                        | 1.4                                                                               | nd         | nd        | na         | na        | nd        |
| Ethylbenzene             | mg/kg | 1   |                                        | 3.1                                                                               | nd         | nd        | na         | na        | nd        |
| Total Xylenes            | mg/kg | 3   |                                        | 14                                                                                | nd         | nd        | na         | na        | 5         |
| <b>PAHs</b>              |       |     |                                        |                                                                                   |            |           |            |           |           |
| Naphthalene              | mg/kg | 0.5 |                                        |                                                                                   | nd         | 3         | 2          | 0.6       | nd        |
| Acenaphthylene           | mg/kg | 0.5 |                                        |                                                                                   | 0.5        | 0.5       | 1.6        | 1.4       | 2.8       |
| Acenaphthene             | mg/kg | 0.5 |                                        |                                                                                   | nd         | 5         | 7.6        | nd        | nd        |
| Fluorene                 | mg/kg | 0.5 |                                        |                                                                                   | nd         | 5.2       | 7.6        | 0.6       | nd        |
| Phenanthrene             | mg/kg | 0.5 |                                        |                                                                                   | 0.6        | 7.6       | 12         | 17        | nd        |
| Anthracene               | mg/kg | 0.5 |                                        |                                                                                   | nd         | 2         | 3.2        | 3.6       | 1.8       |
| Fluoranthene             | mg/kg | 0.5 |                                        |                                                                                   | 2.2        | 1.8       | 7.2        | 23        | 14        |
| Pyrene                   | mg/kg | 0.5 |                                        |                                                                                   | 4.4        | 3.4       | 14         | 25        | 40        |
| Benzo(a)anthracene       | mg/kg | 0.5 |                                        |                                                                                   | 1.4        | 0.7       | 6.6        | 13        | 24        |
| Chrysene                 | mg/kg | 0.5 |                                        |                                                                                   | 2          | 0.5       | 4.6        | 8         | 10        |
| Benzo(b)&(k)fluoranthene | mg/kg | 1   |                                        |                                                                                   | 3          | nd        | 8          | 18        | 35        |
| Benzo(a)pyrene           | mg/kg | 0.5 | 5                                      | 1                                                                                 | <b>3</b>   | 0.9       | <b>9.2</b> | <b>14</b> | <b>35</b> |
| Indeno(1,2,3-cd)pyrene   | mg/kg | 0.5 |                                        |                                                                                   | 2.2        | 0.5       | 5.2        | 10        | 20        |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                                 |            |                 |                                        | GASWORKS AREA                                                                     |                   |                   |                   |                   |                   |
|---------------------------------|------------|-----------------|----------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location                        | Consultant | Sample Location | Sample Depth (metres)                  | CH2M HILL<br>BH01                                                                 | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 |
|                                 |            |                 |                                        | 0.00-0.10                                                                         | 3.30-3.40         | DUP9              | 0.00-0.10         | 0.20-0.30         | 2.50-2.60         |
| Analyte                         | Units      | LOR             | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |                   |                   |                   |                   |                   |
|                                 |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |
| Dibenz(a,h)anthracene           | mg/kg      | 0.5             |                                        |                                                                                   |                   | nd                | 0.8               | 1.2               | 2.6               |
| Benzo(g,h,i)perylene            | mg/kg      | 0.5             |                                        |                                                                                   |                   | 2                 | 4.4               | 6.4               | 17                |
| <b>Total PAHs</b>               | mg/kg      |                 | 100                                    | 20                                                                                |                   | <b>21.3</b>       | <b>31.6</b>       | <b>94</b>         | <b>141.8</b>      |
| <b>Phenols</b>                  |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |
| Phenol                          | mg/kg      | 0.5             | 42500                                  |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2-Chlorophenol                  | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2-Methylphenol                  | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 3-Methylphenol & 4-Methylphenol | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2-Nitrophenol                   | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2,4-Dimethylphenol              | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2,4-Dichlorophenol              | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2,6-Dichlorophenol              | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 4-Chloro-3-methylphenol         | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2,4,5-Trichlorophenol           | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2,4,6-Trichlorophenol           | mg/kg      | 0.5             |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2,4-Dinitrophenol               | mg/kg      | 2               |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 4-Nitrophenol                   | mg/kg      | 1               |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 2,3,4,6-Tetrachlorophenol       | mg/kg      | 1               |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 4,6-Dinitro-2-methylphenol      | mg/kg      | 2               |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| Pentachlorophenol               | mg/kg      | 1               |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg      | 2               |                                        |                                                                                   |                   | na                | na                | nd*               | nd*               |
| <b>Total Phenols</b>            | mg/kg      |                 |                                        |                                                                                   |                   | <b>na</b>         | <b>na</b>         | <b>0</b>          | <b>0</b>          |
| <b>OCPs</b>                     |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |
| HCB                             | mg/kg      | 0.1             |                                        |                                                                                   |                   | nd                | na                | na                | na                |
| alpha-BHC                       | mg/kg      | 0.1             |                                        |                                                                                   |                   | nd                | na                | na                | na                |
| gamma-BHC                       | mg/kg      | 0.1             |                                        |                                                                                   |                   | nd                | na                | na                | na                |
| Heptachlor                      | mg/kg      | 0.1             | 50                                     |                                                                                   |                   | nd                | na                | na                | na                |
| Aldrin                          | mg/kg      | 0.1             | 50                                     |                                                                                   |                   | nd                | na                | na                | na                |
| Dieldrin                        | mg/kg      | 0.1             |                                        |                                                                                   |                   | nd                | na                | na                | na                |
| beta-BHC                        | mg/kg      | 0.1             |                                        |                                                                                   |                   | nd                | na                | na                | na                |
| delta-BHC                       | mg/kg      | 0.1             |                                        |                                                                                   |                   | nd                | na                | na                | na                |
| Oxychlordane                    | mg/kg      | 0.1             |                                        |                                                                                   |                   | nd                | na                | na                | na                |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA     |                   |                   |                   |                   |                   |
|----------|------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 |
|          |            |                 |                       | 0.00-0.10         | 3.30-3.40         | DUP9              | 0.00-0.10         | 0.20-0.30         | 2.50-2.60         |

  

| Analyte              | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) | CH2M HILL<br>BH01 | CH2M HILL<br>BH01 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 |
|----------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Heptachlor epoxide   | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| Endosulphan I        | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| Chlordane-trans      | mg/kg | 0.1 | 250                                    |                                                                                   | na                | na                | na                | nd                | na                |
| Chlordane-cis        | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| trans-Nonachlor      | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| 4,4'-DDE             | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| Endrin               | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| 4,4'-DDD             | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| Endosulphan II       | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| 4,4'-DDT             | mg/kg | 0.1 | 1000                                   |                                                                                   | na                | na                | na                | nd                | na                |
| Endosulphan sulphate | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| Methoxychlor         | mg/kg | 0.1 |                                        |                                                                                   | na                | na                | na                | nd                | na                |
| <b>PCBs</b>          |       |     |                                        |                                                                                   |                   |                   |                   |                   |                   |
| Arochlor 1016        | mg/kg | 1   |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Arochlor 1221        | mg/kg | 1   |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Arochlor 1232        | mg/kg | 1   |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Arochlor 1242        | mg/kg | 1   |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Arochlor 1248        | mg/kg | 1   |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Arochlor 1254        | mg/kg | 1   |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Arochlor 1260        | mg/kg | 1   |                                        |                                                                                   | na                | na                | na                | na                | na                |
| <b>Total PCBs</b>    |       |     | 50                                     |                                                                                   | <b>na</b>         | <b>na</b>         | <b>na</b>         | <b>na</b>         | <b>na</b>         |

NOTE:

**Exceeds NEHF- Level F (1996)**

**Exceeds NSW EPA Guidelines for the Assessment of Service Station Sites (1995)**

n/a = not applicable

LOR = Laboratory Limits of Reporting

na = not selected for analysis

nd = not detected above laboratory LOR

\* = sample required dilution

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA     |                   |                   |                   |                   |                   |                   |                   |
|----------|------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB03 | CH2M HILL<br>SB03 | CH2M HILL<br>SB04 | CH2M HILL<br>SB04 | CH2M HILL<br>SB04 | CH2M HILL<br>SB04 |
|          |            |                 |                       | DUP5              | 4.40-4.50         | 0.00-0.10         | 1.00-1.10         | 0.00-0.10         | 0.70-0.80         |                   |                   |

  

| Analyte                     | Units | LOR  | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |      |    |      |    |      |      |  |
|-----------------------------|-------|------|----------------------------------------|-----------------------------------------------------------------------------------|------|----|------|----|------|------|--|
| <b>HEAVY METALS</b>         |       |      |                                        |                                                                                   |      |    |      |    |      |      |  |
| Arsenic                     | mg/kg | 5    | 500                                    |                                                                                   | nd   | na | 33   | nd | 200  | 17   |  |
| Cadmium                     | mg/kg | 0.5  | 100                                    |                                                                                   | nd   | na | 1.2  | nd | nd   | nd   |  |
| Chromium                    | mg/kg | 5    | 500                                    |                                                                                   | 15   | na | 49   | 18 | 9    | 26   |  |
| Copper                      | mg/kg | 5    | 5000                                   |                                                                                   | 10   | na | 210  | 9  | 98   | 66   |  |
| Nickel                      | mg/kg | 2    | 3000                                   |                                                                                   | 3    | na | 23   | nd | 10   | 10   |  |
| Lead                        | mg/kg | 5    | 1500                                   | 300                                                                               | 230  | na | 730  | 14 | 120  | 190  |  |
| Zinc                        | mg/kg | 5    | 35000                                  |                                                                                   | 41   | na | 520  | 72 | 66   | 130  |  |
| Mercury                     | mg/kg | 0.05 | 75                                     |                                                                                   | 0.28 | na | 0.51 | nd | 0.09 | 0.41 |  |
| Total Cyanide               | mg/kg | 0.5  | 2500                                   |                                                                                   | nd   | na | na   | nd | na   | na   |  |
| <b>VOCs</b>                 |       |      |                                        |                                                                                   |      |    |      |    |      |      |  |
| Benzene                     | mg/kg | 0.5  |                                        | 1                                                                                 | na   | na | na   | na | na   | na   |  |
| Bromobenzene                | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Bromochloromethane          | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Bromodichloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Bromoform                   | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Bromomethane                | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| n-Butylbenzene              | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| sec-Butylbenzene            | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| tert-Butylbenzene           | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Carbon Tetrachloride        | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| cis-1,2-Dichloroethene      | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Chlorobenzene               | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Chloroethane                | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Chloroform                  | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Chloromethane               | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| 2-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| 4-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Dibromochloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |
| Dibromomethane              | mg/kg | 1    |                                        |                                                                                   | na   | na | na   | na | na   | na   |  |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA     |                   |                   |                   |                   |                   |                   |                   |
|----------|------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>SB02 | CH2M HILL<br>SB02 | CH2M HILL<br>SB03 | CH2M HILL<br>SB03 | CH2M HILL<br>SB04 | CH2M HILL<br>SB04 | CH2M HILL<br>SB04 | CH2M HILL<br>SB04 |
|          |            |                 |                       | DUP5              | 4.40-4.50         | 0.00-0.10         | 1.00-1.10         | 0.00-0.10         | 0.70-0.80         |                   |                   |

  

| Analyte                     | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) | na | na | na | na | na | na | na |
|-----------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|----|
| 1,2-Dichlorobenzene         | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,3-Dichlorobenzene         | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,4-Dichlorobenzene         | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Dichlorodifluoromethane     | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,1-Dichloroethene          | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,2-Dichloroethane          | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,1-Dichloroethane          | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| cis-1,2-Dichloroethene      | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| trans-1,2-Dichloroethene    | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,2-Dichloropropane         | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,3-Dichloropropane         | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 2,2-Dichloropropane         | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,1-Dichloropropylene       | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| cis-1,3-Dichloropropylene   | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| trans-1,3-Dichloropropylene | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Ethylbenzene                | mg/kg | 1   |                                        | 3.1                                                                               | na | na | na | na | na | na | na |
| Hexachlorobutadiene         | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Isopropylene                | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| p-Isopropyltoluene          | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Methylene chloride          | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Naphthalene                 | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| n-Propylbenzene             | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Styrene                     | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,1,1,2-Tetrachloroethane   | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Tetrachloroethene           | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Toluene                     | mg/kg | 1   |                                        | 1.4                                                                               | na | na | na | na | na | na | na |
| 1,2,3-Trichlorobenzene      | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,2,4-Trichlorobenzene      | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,1,1-Trichloroethane       | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| 1,1,2-Trichloroethane       | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |
| Trichloroethene             | mg/kg | 1   |                                        |                                                                                   | na | na | na | na | na | na | na |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA  |                |                |                |                |                |                |                |
|----------|------------|-----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL SB02 | CH2M HILL SB02 | CH2M HILL SB03 | CH2M HILL SB03 | CH2M HILL SB04 | CH2M HILL SB04 | CH2M HILL SB04 | CH2M HILL SB04 |
|          |            |                 |                       | DUP5           | 4.40-4.50      | 0.00-0.10      | 1.00-1.10      | 0.00-0.10      | 0.70-0.80      |                |                |

  

| Analyte                  | Units | LOR | NEHF - Level I<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |           |          |             |            |           |           |              |
|--------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|-----------|----------|-------------|------------|-----------|-----------|--------------|
| Trichlorofluoromethane   | mg/kg | 1   |                                        |                                                                                   | na        | na       | na          | na         | na        | na        | na           |
| 1,2,3-Trichloropropane   | mg/kg | 1   |                                        |                                                                                   | na        | na       | na          | na         | na        | na        | na           |
| 1,2,4-Trimethylbenzene   | mg/kg | 1   |                                        |                                                                                   | na        | na       | na          | na         | na        | na        | na           |
| 1,3,5-Trimethylbenzene   | mg/kg | 1   |                                        |                                                                                   | na        | na       | na          | na         | na        | na        | na           |
| Vinyl chloride           | mg/kg | 1   |                                        |                                                                                   | na        | na       | na          | na         | na        | na        | na           |
| ortho-Xylene             | mg/kg | 1   |                                        | 14                                                                                | na        | na       | na          | na         | na        | na        | na           |
| meta- & para-Xylene      | mg/kg | 1   |                                        |                                                                                   | na        | na       | na          | na         | na        | na        | na           |
| <b>TPH</b>               |       |     |                                        |                                                                                   |           |          |             |            |           |           |              |
| C6-C9                    | mg/kg | 10  |                                        | 65                                                                                | nd        | nd       | nd          | na         | na        | na        | nd           |
| C10-C14                  | mg/kg | 10  |                                        |                                                                                   | 20        | nd       | 120         | nd         | na        | na        | 1000         |
| C15-C28                  | mg/kg | 50  |                                        |                                                                                   | nd        | nd       | 3300        | 300        | na        | na        | 9700         |
| C29-C36                  | mg/kg | 50  |                                        |                                                                                   | nd        | nd       | 1600        | 260        | na        | na        | 1400         |
| <b>Total C10-C36</b>     | mg/kg |     |                                        | 1000                                                                              | <b>20</b> | <b>0</b> | <b>5020</b> | <b>560</b> | <b>na</b> | <b>na</b> | <b>12100</b> |
| <b>BTEX</b>              |       |     |                                        |                                                                                   |           |          |             |            |           |           |              |
| Benzene                  | mg/kg | 0.5 |                                        | 1                                                                                 | nd        | nd       | nd          | nd         | na        | na        | nd           |
| Toluene                  | mg/kg | 1   |                                        | 1.4                                                                               | nd        | nd       | nd          | nd         | na        | na        | nd           |
| Ethylbenzene             | mg/kg | 1   |                                        | 3.1                                                                               | nd        | nd       | nd          | nd         | na        | na        | nd           |
| Total Xylenes            | mg/kg | 3   |                                        | 14                                                                                | 4         | nd       | nd          | nd         | na        | na        | nd           |
| <b>PAHs</b>              |       |     |                                        |                                                                                   |           |          |             |            |           |           |              |
| Naphthalene              | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 3.4         | nd         | nd        | nd        | 28           |
| Acenaphthylene           | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 8           | nd         | nd        | nd        | 78           |
| Acenaphthene             | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 0.8         | nd         | nd        | nd        | 12           |
| Fluorene                 | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 4.2         | nd         | nd        | nd        | 66           |
| Phenanthrene             | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 34          | nd         | nd        | nd        | 290          |
| Anthracene               | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 10          | nd         | nd        | nd        | 82           |
| Fluoranthene             | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 42          | nd         | nd        | nd        | 230          |
| Pyrene                   | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 48          | nd         | nd        | nd        | 240          |
| Benzo(a)anthracene       | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 30          | nd         | nd        | nd        | 190          |
| Chrysene                 | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 21          | nd         | nd        | nd        | 80           |
| Benzo(b)&(k)fluoranthene | mg/kg | 1   |                                        |                                                                                   | nd        | nd       | 37          | nd         | nd        | nd        | 170          |
| Benzo(a)pyrene           | mg/kg | 0.5 | 5                                      | 1                                                                                 | nd        | nd       | <b>27</b>   | nd         | nd        | nd        | <b>140</b>   |
| Indeno(1,2,3-cd)pyrene   | mg/kg | 0.5 |                                        |                                                                                   | nd        | nd       | 15          | nd         | nd        | nd        | 52           |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                                 |            |                 |                                        | GASWORKS AREA                                                                     |                   |                   |                   |                   |                   |
|---------------------------------|------------|-----------------|----------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location                        | Consultant | Sample Location | Sample Depth (metres)                  | CH2M HILL<br>SB02                                                                 | CH2M HILL<br>SB02 | CH2M HILL<br>SB03 | CH2M HILL<br>SB03 | CH2M HILL<br>SB04 | CH2M HILL<br>SB04 |
|                                 |            |                 |                                        | DUP5                                                                              | 4.40-4.50         | 0.00-0.10         | 1.00-1.10         | 0.00-0.10         | 0.70-0.80         |
| Analyte                         | Units      | LOR             | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |                   |                   |                   |                   |                   |
|                                 |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |
| Dibenz(a,h)anthracene           | mg/kg      | 0.5             |                                        |                                                                                   | nd                | nd                | nd                | nd                | 11                |
| Benzo(g,h,i)perylene            | mg/kg      | 0.5             |                                        |                                                                                   | nd                | nd                | nd                | nd                | 28                |
| <b>Total PAHs</b>               | mg/kg      |                 | 100                                    | 20                                                                                | <b>0</b>          | <b>0</b>          | <b>0</b>          | <b>0</b>          | <b>1697</b>       |
| <b>Phenols</b>                  |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |
| Phenol                          | mg/kg      | 0.5             | 42500                                  |                                                                                   | na                | na                | na                | na                | 41                |
| 2-Chlorophenol                  | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | na                | na                | nd*               |
| 2-Methylphenol                  | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | na                | na                | 58                |
| 3-Methylphenol & 4-Methylphenol | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | 11                | na                | 180               |
| 2-Nitrophenol                   | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 2,4-Dimethylphenol              | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | 7.4               | na                | 140               |
| 2,4-Dichlorophenol              | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 2,6-Dichlorophenol              | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 4-Chloro-3-methylphenol         | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 2,4,5-Trichlorophenol           | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 2,4,6-Trichlorophenol           | mg/kg      | 0.5             |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 2,4-Dinitrophenol               | mg/kg      | 2               |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 4-Nitrophenol                   | mg/kg      | 1               |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 2,3,4,6-Tetrachlorophenol       | mg/kg      | 1               |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 4,6-Dinitro-2-methylphenol      | mg/kg      | 2               |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| Pentachlorophenol               | mg/kg      | 1               |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg      | 2               |                                        |                                                                                   | na                | na                | nd*               | na                | nd*               |
| <b>Total Phenols</b>            | mg/kg      |                 |                                        |                                                                                   | <b>na</b>         | <b>na</b>         | <b>18.4</b>       | <b>na</b>         | <b>419</b>        |
| <b>OCPs</b>                     |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |
| HCB                             | mg/kg      | 0.1             |                                        |                                                                                   | na                | na                | na                | na                | na                |
| alpha-BHC                       | mg/kg      | 0.1             |                                        |                                                                                   | na                | na                | na                | na                | na                |
| gamma-BHC                       | mg/kg      | 0.1             |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Heptachlor                      | mg/kg      | 0.1             | 50                                     |                                                                                   | na                | na                | na                | na                | na                |
| Aldrin                          | mg/kg      | 0.1             | 50                                     |                                                                                   | na                | na                | na                | na                | na                |
| Dieldrin                        | mg/kg      | 0.1             |                                        |                                                                                   | na                | na                | na                | na                | na                |
| beta-BHC                        | mg/kg      | 0.1             |                                        |                                                                                   | na                | na                | na                | na                | na                |
| delta-BHC                       | mg/kg      | 0.1             |                                        |                                                                                   | na                | na                | na                | na                | na                |
| Oxychlordane                    | mg/kg      | 0.1             |                                        |                                                                                   | na                | na                | na                | na                | na                |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA  |                |                |                |                |                |
|----------|------------|-----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL SB02 | CH2M HILL SB03 | CH2M HILL SB04 | CH2M HILL SB03 | CH2M HILL SB04 | CH2M HILL SB04 |
|          |            |                 |                       | DUP5           | 4.40-4.50      | 0.00-0.10      | 1.00-1.10      | 0.00-0.10      | 0.70-0.80      |

  

| Analyte              | Units | LOR | NEHF - Level F Monographs (1996) | NSW EPA Guidelines for the Assessment of Service Station Sites (1994) | CH2M HILL SB02 | CH2M HILL SB03 | CH2M HILL SB04 | CH2M HILL SB03 | CH2M HILL SB04 | CH2M HILL SB04 |
|----------------------|-------|-----|----------------------------------|-----------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Heptachlor epoxide   | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Endosulphan I        | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Chlordane-trans      | mg/kg | 0.1 | 250                              |                                                                       | na             | na             | na             | na             | na             | na             |
| Chlordane-cis        | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| trans-Nonachlor      | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 4,4'-DDE             | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Endrin               | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 4,4'-DDD             | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Endosulphan II       | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 4,4'-DDT             | mg/kg | 0.1 | 1000                             |                                                                       | na             | na             | na             | na             | na             | na             |
| Endosulphan sulphate | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Methoxychlor         | mg/kg | 0.1 |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| <b>PCBs</b>          |       |     |                                  |                                                                       |                |                |                |                |                |                |
| Arochlor 1016        | mg/kg | 1   |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Arochlor 1221        | mg/kg | 1   |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Arochlor 1232        | mg/kg | 1   |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Arochlor 1242        | mg/kg | 1   |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Arochlor 1248        | mg/kg | 1   |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Arochlor 1254        | mg/kg | 1   |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Arochlor 1260        | mg/kg | 1   |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| <b>Total PCBs</b>    |       |     | 50                               |                                                                       | na             | na             | na             | na             | na             | na             |

NOTE:

**Exceeds NEHF- Level F (1996)**

**Exceeds NSW EPA Guidelines for the Assessment of Service Station Sites (1995)**

n/a = not applicable

LOR = Laboratory Limits of Reporting

na = not selected for analysis

nd = not detected above laboratory LOR

\* = sample required dilution

TABLE 6.3  
SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA

| Location              |  |  |  | GASWORKS AREA |           |           |           |           |           |           |  |
|-----------------------|--|--|--|---------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Consultant            |  |  |  | CH2M HILL     | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL |  |
| Sample Location       |  |  |  | SB04          | SB06      | SB06      | SB07      | SB07      | SB07      | SB07      |  |
| Sample Depth (metres) |  |  |  | 1.50-1.60     | 0.20-0.30 | 0.30-0.40 | 0.00-0.10 | SBDUP08   | 1.40-1.50 |           |  |

|                             |       |      | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |      |      |    |      |      |     |  |
|-----------------------------|-------|------|----------------------------------------|-----------------------------------------------------------------------------------|------|------|----|------|------|-----|--|
| Analyte                     | Units | LOR  |                                        |                                                                                   |      |      |    |      |      |     |  |
| HEAVY METALS                |       |      |                                        |                                                                                   |      |      |    |      |      |     |  |
| Arsenic                     | mg/kg | 5    | 500                                    |                                                                                   | nd   | nd   | 5  | nd   | 6    | nd  |  |
| Cadmium                     | mg/kg | 0.5  | 100                                    |                                                                                   | nd   | nd   | nd | nd   | nd   | nd  |  |
| Chromium                    | mg/kg | 5    | 500                                    |                                                                                   | 14   | 35   | 28 | 74   | 54   | 20  |  |
| Copper                      | mg/kg | 5    | 5000                                   |                                                                                   | 12   | 74   | nd | 61   | 64   | 7   |  |
| Nickel                      | mg/kg | 2    | 3000                                   |                                                                                   | 4    | 58   | 5  | 75   | 68   | 30  |  |
| Lead                        | mg/kg | 5    | 1500                                   | 300                                                                               | 97   | 210  | 33 | 120  | 130  | 17  |  |
| Zinc                        | mg/kg | 5    | 35000                                  |                                                                                   | 26   | 150  | 13 | 280  | 360  | 220 |  |
| Mercury                     | mg/kg | 0.05 | 75                                     |                                                                                   | 0.26 | 0.07 | nd | 0.15 | 0.21 | nd  |  |
| Total Cyanide               | mg/kg | 0.5  | 2500                                   |                                                                                   | na   | 0.7  | na | na   | na   | 98  |  |
| VOCs                        |       |      |                                        |                                                                                   |      |      |    |      |      |     |  |
| Benzene                     | mg/kg | 0.5  |                                        | 1                                                                                 | na   | na   | na | na   | na   | nd  |  |
| Bromobenzene                | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Bromochloromethane          | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Bromodichloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Bromoform                   | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Bromomethane                | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| n-Butylbenzene              | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | 27  |  |
| sec-Butylbenzene            | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | 2   |  |
| tert-Butylbenzene           | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Carbon Tetrachloride        | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| cis-1,2-Dichloroethene      | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Chlorobenzene               | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Chloroethane                | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Chloroform                  | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Chloromethane               | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| 2-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| 4-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Dibromochloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |
| Dibromomethane              | mg/kg | 1    |                                        |                                                                                   | na   | na   | na | na   | na   | nd  |  |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA  |                |                |                |                |                   |                |                |
|----------|------------|-----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL SB04 | CH2M HILL SB06 | CH2M HILL SB07 | CH2M HILL SB07 | CH2M HILL SB07 | CH2M HILL SBDUP08 | CH2M HILL SB07 | CH2M HILL SB07 |
|          |            |                 |                       | 1.50-1.60      | 0.20-0.30      | 0.30-0.40      | 0.00-0.10      |                |                   |                | 1.40-1.50      |

  

| Analyte                     | Units | LOR | NEHF - Level F Monographs (1996) | NSW EPA Guidelines for the Assessment of Service Station Sites (1994) | na | na | na | na | na | na | na  |
|-----------------------------|-------|-----|----------------------------------|-----------------------------------------------------------------------|----|----|----|----|----|----|-----|
| 1,2-Dichlorobenzene         | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,3-Dichlorobenzene         | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,4-Dichlorobenzene         | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| Dichlorodifluoromethane     | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,1-Dichloroethene          | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,2-Dichloroethane          | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,1-Dichloroethane          | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| cis-1,2-Dichloroethene      | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| trans-1,2-Dichloroethene    | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,2-Dichloropropane         | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,3-Dichloropropane         | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 2,2-Dichloropropane         | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,1-Dichloropropylene       | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| cis-1,3-Dichloropropylene   | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| trans-1,3-Dichloropropylene | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| Ethylbenzene                | mg/kg | 1   |                                  | 3.1                                                                   | na | na | na | na | na | na | 7   |
| Hexachlorobutadiene         | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| Isopropylene                | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | 12  |
| p-Isopropyltoluene          | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | 17  |
| Methylene chloride          | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| Naphthalene                 | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | 780 |
| n-Propylbenzene             | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | 10  |
| Styrene                     | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,1,1,2-Tetrachloroethane   | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| Tetrachloroethene           | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| Toluene                     | mg/kg | 1   |                                  | 1.4                                                                   | na | na | na | na | na | na | nd  |
| 1,2,3-Trichlorobenzene      | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,2,4-Trichlorobenzene      | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,1,1-Trichloroethane       | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| 1,1,2-Trichloroethane       | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |
| Trichloroethene             | mg/kg | 1   |                                  |                                                                       | na | na | na | na | na | na | nd  |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA  |                |                |                |                |                |                   |                |
|----------|------------|-----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL SB04 | CH2M HILL SB06 | CH2M HILL SB07 | CH2M HILL SB06 | CH2M HILL SB07 | CH2M HILL SB07 | CH2M HILL SBDUP08 | CH2M HILL SB07 |
|          |            |                 |                       | 1.50-1.60      | 0.20-0.30      | 0.30-0.40      | 0.00-0.10      |                |                |                   | 1.40-1.50      |

  

| Analyte                  | Units | LOR | NEHF - Level F Monographs (1996) | NSW EPA Guidelines for the Assessment of Service Station Sites (1994) |           |              |            |              |              |              |           |
|--------------------------|-------|-----|----------------------------------|-----------------------------------------------------------------------|-----------|--------------|------------|--------------|--------------|--------------|-----------|
| Trichlorofluoromethane   | mg/kg | 1   |                                  |                                                                       | na        | na           | na         | na           | na           | na           | nd        |
| 1,2,3-Trichloropropane   | mg/kg | 1   |                                  |                                                                       | na        | na           | na         | na           | na           | na           | nd        |
| 1,2,4-Trimethylbenzene   | mg/kg | 1   |                                  |                                                                       | na        | na           | na         | na           | na           | na           | 250       |
| 1,3,5-Trimethylbenzene   | mg/kg | 1   |                                  |                                                                       | na        | na           | na         | na           | na           | na           | 120       |
| Vinyl chloride           | mg/kg | 1   |                                  |                                                                       | na        | na           | na         | na           | na           | na           | nd        |
| ortho-Xylene             | mg/kg | 1   |                                  | 14                                                                    | na        | na           | na         | na           | na           | na           | 14        |
| meta- & para-Xylene      | mg/kg | 1   |                                  |                                                                       | na        | na           | na         | na           | na           | na           | 15        |
| <b>TPH</b>               |       |     |                                  |                                                                       |           |              |            |              |              |              |           |
| C6-C9                    | mg/kg | 10  |                                  | 65                                                                    | na        | 11           | nd         | nd           | nd           | nd           | na        |
| C10-C14                  | mg/kg | 10  |                                  |                                                                       | na        | 2600         | 70         | 1300         | 1100         | 1100         | na        |
| C15-C28                  | mg/kg | 50  |                                  |                                                                       | na        | 15000        | 580        | 11000        | 16000        | 16000        | na        |
| C29-C36                  | mg/kg | 50  |                                  |                                                                       | na        | 2400         | 260        | 2100         | 5600         | 5600         | na        |
| <b>Total C10-C36</b>     | mg/kg |     |                                  | 1000                                                                  | <b>na</b> | <b>20000</b> | <b>910</b> | <b>14400</b> | <b>22700</b> | <b>22700</b> | <b>na</b> |
| <b>BTEX</b>              |       |     |                                  |                                                                       |           |              |            |              |              |              |           |
| Benzene                  | mg/kg | 0.5 |                                  | 1                                                                     | nd        | nd           | nd         | nd           | nd           | nd           | nd        |
| Toluene                  | mg/kg | 1   |                                  | 1.4                                                                   | nd        | nd           | nd         | nd           | nd           | nd           | nd        |
| Ethylbenzene             | mg/kg | 1   |                                  | 3.1                                                                   | nd        | nd           | nd         | nd           | nd           | nd           | 8         |
| <b>Total Xylenes</b>     | mg/kg | 3   |                                  | 14                                                                    | nd        | 3            | nd         | nd           | nd           | nd           | 32        |
| <b>PAHs</b>              |       |     |                                  |                                                                       |           |              |            |              |              |              |           |
| Naphthalene              | mg/kg | 0.5 |                                  |                                                                       | nd        | 99           | nd         | 51           | 30           | 30           | 650       |
| Acenaphthylene           | mg/kg | 0.5 |                                  |                                                                       | nd        | 72           | 2          | 68           | 44           | 44           | 35        |
| Acenaphthene             | mg/kg | 0.5 |                                  |                                                                       | nd        | 29           | nd         | 15           | 7.8          | 7.8          | 41        |
| Fluorene                 | mg/kg | 0.5 |                                  |                                                                       | nd        | 120          | nd         | 78           | 29           | 29           | 61        |
| Phenanthrene             | mg/kg | 0.5 |                                  |                                                                       | nd        | 390          | 1.4        | 270          | 170          | 170          | 100       |
| Anthracene               | mg/kg | 0.5 |                                  |                                                                       | nd        | 120          | 0.9        | 87           | 53           | 53           | 30        |
| Fluoranthene             | mg/kg | 0.5 |                                  |                                                                       | nd        | 290          | 5          | 270          | 270          | 270          | 51        |
| Pyrene                   | mg/kg | 0.5 |                                  |                                                                       | nd        | 320          | 20         | 290          | 330          | 330          | 54        |
| Benzo(a)anthracene       | mg/kg | 0.5 |                                  |                                                                       | nd        | 280          | 7.6        | 250          | 190          | 190          | 31        |
| Chrysene                 | mg/kg | 0.5 |                                  |                                                                       | nd        | 96           | 9.2        | 89           | 140          | 140          | 14        |
| Benzo(b)&(k)fluoranthene | mg/kg | 1   |                                  |                                                                       | nd        | 250          | 26         | 270          | 220          | 220          | 30        |
| Benzo(a)pyrene           | mg/kg | 0.5 | 5                                | 1                                                                     | nd        | <b>190</b>   | <b>30</b>  | <b>200</b>   | <b>160</b>   | <b>160</b>   | <b>26</b> |
| Indeno(1,2,3-cd)pyrene   | mg/kg | 0.5 |                                  |                                                                       | nd        | 70           | 16         | 84           | 97           | 97           | 13        |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA     |                   |                   |                   |                   |                      |                   |                   |
|----------|------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|-------------------|-------------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>SB04 | CH2M HILL<br>SB06 | CH2M HILL<br>SB07 | CH2M HILL<br>SB07 | CH2M HILL<br>SB07 | CH2M HILL<br>SBDUP08 | CH2M HILL<br>SB07 | CH2M HILL<br>SB07 |
|          |            |                 |                       | 1.50-1.60         | 0.20-0.30         | 0.30-0.40         | 0.00-0.10         |                   |                      |                   | 1.40-1.50         |

  

| Analyte                         | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |           |             |              |             |               |  |               |
|---------------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|-----------|-------------|--------------|-------------|---------------|--|---------------|
| Dibenz(a,h)anthracene           | mg/kg | 0.5 |                                        |                                                                                   | nd        | 11          | 2.2          | 10          | 18            |  | 1.6           |
| Benzo(g,h,i)perylene            | mg/kg | 0.5 |                                        |                                                                                   | nd        | 37          | 17           | 46          | 61            |  | 7.2           |
| <b>Total PAHs</b>               | mg/kg |     | 100                                    | 20                                                                                | <b>0</b>  | <b>2374</b> | <b>137.3</b> | <b>2078</b> | <b>1819.8</b> |  | <b>1144.8</b> |
| <b>Phenols</b>                  |       |     |                                        |                                                                                   |           |             |              |             |               |  |               |
| Phenol                          | mg/kg | 0.5 | 42500                                  |                                                                                   | na        | 9           | nd*          | 9           | na            |  | nd*           |
| 2-Chlorophenol                  | mg/kg | 0.5 |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 2-Methylphenol                  | mg/kg | 0.5 |                                        |                                                                                   | na        | 9           | nd*          | 8           | na            |  | nd*           |
| 3-Methylphenol & 4-Methylphenol | mg/kg | 0.5 |                                        |                                                                                   | na        | 28          | nd*          | 19          | na            |  | nd*           |
| 2-Nitrophenol                   | mg/kg | 0.5 |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 2,4-Dimethylphenol              | mg/kg | 0.5 |                                        |                                                                                   | na        | 19          | nd*          | 14          | na            |  | nd*           |
| 2,4-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 2,6-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 4-Chloro-3-methylphenol         | mg/kg | 0.5 |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 2,4,5-Trichlorophenol           | mg/kg | 0.5 |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 2,4,6-Trichlorophenol           | mg/kg | 0.5 |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 2,4-Dinitrophenol               | mg/kg | 2   |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 4-Nitrophenol                   | mg/kg | 1   |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | 1   |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 4,6-Dinitro-2-methylphenol      | mg/kg | 2   |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| Pentachlorophenol               | mg/kg | 1   |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg | 2   |                                        |                                                                                   | na        | nd*         | nd*          | nd*         | na            |  | nd*           |
| <b>Total Phenols</b>            | mg/kg |     |                                        |                                                                                   | <b>na</b> | <b>65</b>   | <b>0</b>     | <b>50</b>   | <b>na</b>     |  | <b>0</b>      |
| <b>OCPs</b>                     |       |     |                                        |                                                                                   |           |             |              |             |               |  |               |
| HCB                             | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| alpha-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| gamma-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| Heptachlor                      | mg/kg | 0.1 | 50                                     |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| Aldrin                          | mg/kg | 0.1 | 50                                     |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| Dieldrin                        | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| beta-BHC                        | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| delta-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |
| Oxychlordane                    | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na           | nd          | nd            |  | na            |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                      |            |                 |                                  | GASWORKS AREA                                                         |                |                |                |                |                   |                |                |
|----------------------|------------|-----------------|----------------------------------|-----------------------------------------------------------------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|
| Location             | Consultant | Sample Location | Sample Depth (metres)            | CH2M HILL SB04                                                        | CH2M HILL SB06 | CH2M HILL SB07 | CH2M HILL SB06 | CH2M HILL SB07 | CH2M HILL SBDUP08 | CH2M HILL SB07 | CH2M HILL SB07 |
|                      |            |                 |                                  | 1.50-1.60                                                             | 0.20-0.30      | 0.30-0.40      | 0.00-0.10      |                |                   |                | 1.40-1.50      |
| Analyte              | Units      | LOR             | NEHF - Level F Monographs (1996) | NSW EPA Guidelines for the Assessment of Service Station Sites (1994) |                |                |                |                |                   |                |                |
| Heptachlor epoxide   | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| Endosulphan I        | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| Chlordane-trans      | mg/kg      | 0.1             | 250                              | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| Chlordane-cis        | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| trans-Nonachlor      | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| 4,4'-DDE             | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| Endrin               | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| 4,4'-DDD             | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| Endosulphan II       | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| 4,4'-DDT             | mg/kg      | 0.1             | 1000                             | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| Endosulphan sulphate | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| Methoxychlor         | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | nd             | nd             | na                | na             | na             |
| <b>PCBs</b>          |            |                 |                                  |                                                                       |                |                |                |                |                   |                |                |
| Arochlor 1016        | mg/kg      | 1               |                                  | na                                                                    | na             | na             | na             | na             | na                | na             | nd             |
| Arochlor 1221        | mg/kg      | 1               |                                  | na                                                                    | na             | na             | na             | na             | na                | na             | nd             |
| Arochlor 1232        | mg/kg      | 1               |                                  | na                                                                    | na             | na             | na             | na             | na                | na             | nd             |
| Arochlor 1242        | mg/kg      | 1               |                                  | na                                                                    | na             | na             | na             | na             | na                | na             | nd             |
| Arochlor 1248        | mg/kg      | 1               |                                  | na                                                                    | na             | na             | na             | na             | na                | na             | nd             |
| Arochlor 1254        | mg/kg      | 1               |                                  | na                                                                    | na             | na             | na             | na             | na                | na             | nd             |
| Arochlor 1260        | mg/kg      | 1               |                                  | na                                                                    | na             | na             | na             | na             | na                | na             | nd             |
| <b>Total PCBs</b>    |            |                 | 50                               | na                                                                    | na             | na             | na             | na             | na                | na             | 0              |

NOTE:

**Exceeds NEHF- Level F (1996)**

**Exceeds NSW EPA Guidelines for the Assessment of Service Station Sites (1995)**

n/a = not applicable

LOR = Laboratory Limits of Reporting

na = not selected for analysis

nd = not detected above laboratory LOR

\* = sample required dilution

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

| Location              |  | GASWORKS AREA     |                   |                   |                   |                   |                   |                   |                   |  |  |
|-----------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|
| Consultant            |  | CH2M HILL<br>SB08 | CH2M HILL<br>SB08 | CH2M HILL<br>SB08 | CH2M HILL<br>BH10 | CH2M HILL<br>BH10 | CH2M HILL<br>BH10 | CH2M HILL<br>BH11 | CH2M HILL<br>BH11 |  |  |
| Sample Location       |  |                   |                   |                   |                   |                   |                   |                   |                   |  |  |
| Sample Depth (metres) |  | 0.00-0.10         | 1.00-1.10         | 1.60-1.70         | 0.00-0.10         | 0.30              | 1.20-1.30         |                   |                   |  |  |

  

| Analyte                     | Units | LOR  | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |      |     |    |      |      |    |  |  |  |  |
|-----------------------------|-------|------|----------------------------------------|-----------------------------------------------------------------------------------|------|-----|----|------|------|----|--|--|--|--|
| <b>HEAVY METALS</b>         |       |      |                                        |                                                                                   |      |     |    |      |      |    |  |  |  |  |
| Arsenic                     | mg/kg | 5    | 500                                    |                                                                                   | 15   | 41  | 5  | 25   | 7    | nd |  |  |  |  |
| Cadmium                     | mg/kg | 0.5  | 100                                    |                                                                                   | 1.4  | nd  | nd | 1.2  | nd   | nd |  |  |  |  |
| Chromium                    | mg/kg | 5    | 500                                    |                                                                                   | 37   | 14  | 22 | 28   | 11   | 9  |  |  |  |  |
| Copper                      | mg/kg | 5    | 5000                                   |                                                                                   | 360  | 390 | nd | 240  | 65   | nd |  |  |  |  |
| Nickel                      | mg/kg | 2    | 3000                                   |                                                                                   | 25   | 48  | 2  | 29   | 17   | 2  |  |  |  |  |
| Lead                        | mg/kg | 5    | 1500                                   | 300                                                                               | 200  | 120 | 13 | 370  | 49   | 17 |  |  |  |  |
| Zinc                        | mg/kg | 5    | 35000                                  |                                                                                   | 460  | 520 | 8  | 250  | 290  | nd |  |  |  |  |
| Mercury                     | mg/kg | 0.05 | 75                                     |                                                                                   | 0.36 | 0.1 | nd | 0.43 | 0.16 | nd |  |  |  |  |
| Total Cyanide               | mg/kg | 0.5  | 2500                                   |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| <b>VOCs</b>                 |       |      |                                        |                                                                                   |      |     |    |      |      |    |  |  |  |  |
| Benzene                     | mg/kg | 0.5  |                                        | 1                                                                                 | na   | na  | na | na   | na   | na |  |  |  |  |
| Bromobenzene                | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Bromochloromethane          | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Bromodichloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Bromoform                   | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Bromomethane                | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| n-Butylbenzene              | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| sec-Butylbenzene            | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| tert-Butylbenzene           | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Carbon Tetrachloride        | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| cis-1,2-Dichloroethene      | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Chlorobenzene               | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Chloroethane                | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Chloroform                  | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Chloromethane               | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| 2-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| 4-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Dibromochloromethane        | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |
| Dibromomethane              | mg/kg | 1    |                                        |                                                                                   | na   | na  | na | na   | na   | na |  |  |  |  |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                             |            |                 |                                  | GASWORKS AREA                                                         |                |                |                |                |                |                |
|-----------------------------|------------|-----------------|----------------------------------|-----------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Location                    | Consultant | Sample Location | Sample Depth (metres)            | CH2M HILL SB08                                                        | CH2M HILL SB08 | CH2M HILL BH10 | CH2M HILL BH10 | CH2M HILL BH10 | CH2M HILL BH11 | CH2M HILL BH11 |
|                             |            |                 |                                  | 0.00-0.10                                                             | 1.00-1.10      | 1.60-1.70      | 0.00-0.10      | 0.30           | 1.20-1.30      |                |
| Analyte                     | Units      | LOR             | NEHF - Level F Monographs (1996) | NSW EPA Guidelines for the Assessment of Service Station Sites (1994) |                |                |                |                |                |                |
| 1.2-Dichlorobenzene         | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.3-Dichlorobenzene         | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.4-Dichlorobenzene         | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Dichlorodifluoromethane     | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.1-Dichloroethene          | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.2-Dichloroethane          | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.1-Dichloroethane          | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| cis-1.2-Dichloroethene      | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| trans-1.2-Dichloroethene    | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.2-Dichloropropane         | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.3-Dichloropropane         | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 2.2-Dichloropropane         | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.1-Dichloropropylene       | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| cis-1.3-Dichloropropylene   | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| trans-1.3-Dichloropropylene | mg/kg      | 1               |                                  | 3.1                                                                   | na             | na             | na             | na             | na             | na             |
| Ethylbenzene                | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Hexachlorobutadiene         | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Isopropylene                | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| p-Isopropyltoluene          | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Methylene chloride          | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Naphthalene                 | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| n-Propylbenzene             | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Styrene                     | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.1.1.2-Tetrachloroethane   | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.1.2.2-Tetrachloroethane   | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Tetrachloroethene           | mg/kg      | 1               |                                  | 1.4                                                                   | na             | na             | na             | na             | na             | na             |
| Toluene                     | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.2.3-Trichlorobenzene      | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.2.4-Trichlorobenzene      | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.1.1-Trichloroethane       | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| 1.1.2-Trichloroethane       | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |
| Trichloroethene             | mg/kg      | 1               |                                  |                                                                       | na             | na             | na             | na             | na             | na             |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA  |                |                |                |                |                |
|----------|------------|-----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL SB08 | CH2M HILL SB08 | CH2M HILL SB08 | CH2M HILL BH10 | CH2M HILL BH10 | CH2M HILL BH11 |
|          |            |                 |                       | 0.00-0.10      | 1.00-1.10      | 1.60-1.70      | 0.00-0.10      | 0.30           | 1.20-1.30      |

  

| Analyte                 | Units | LOR | NEHF - Level I<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |            |            |            |            |            |
|-------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|------------|------------|------------|------------|------------|
| Trichlorofluoromethane  | mg/kg | 1   |                                        |                                                                                   | na         | na         | na         | na         | na         |
| 1,2,3-Trichloropropane  | mg/kg | 1   |                                        |                                                                                   | na         | na         | na         | na         | na         |
| 1,2,4-Trimethylbenzene  | mg/kg | 1   |                                        |                                                                                   | na         | na         | na         | na         | na         |
| 1,3,5-Trimethylbenzene  | mg/kg | 1   |                                        |                                                                                   | na         | na         | na         | na         | na         |
| Vinyl chloride          | mg/kg | 1   |                                        |                                                                                   | na         | na         | na         | na         | na         |
| ortho-Xylene            | mg/kg | 1   |                                        | 14                                                                                | na         | na         | na         | na         | na         |
| meta- & para-Xylene     | mg/kg | 1   |                                        |                                                                                   | na         | na         | na         | na         | na         |
| <b>TPH</b>              |       |     |                                        |                                                                                   |            |            |            |            |            |
| C6-C9                   | mg/kg | 10  |                                        | 65                                                                                | na         | nd         | na         | nd         | na         |
| C10-C14                 | mg/kg | 10  |                                        |                                                                                   | na         | 120        | na         | 30         | na         |
| C15-C28                 | mg/kg | 50  |                                        |                                                                                   | na         | 740        | na         | 300        | na         |
| C29-C36                 | mg/kg | 50  |                                        |                                                                                   | na         | 120        | na         | 140        | na         |
| <b>Total C10-C36</b>    | mg/kg |     |                                        | 1000                                                                              | <b>na</b>  | <b>980</b> | <b>na</b>  | <b>470</b> | <b>na</b>  |
| <b>BTEX</b>             |       |     |                                        |                                                                                   |            |            |            |            |            |
| Benzene                 | mg/kg | 0.5 |                                        | 1                                                                                 | na         | nd         | na         | nd         | na         |
| Toluene                 | mg/kg | 1   |                                        | 1.4                                                                               | na         | nd         | na         | nd         | na         |
| Ethylbenzene            | mg/kg | 1   |                                        | 3.1                                                                               | na         | nd         | na         | nd         | na         |
| Total Xylenes           | mg/kg | 3   |                                        | 14                                                                                | na         | nd         | na         | nd         | na         |
| <b>PAHs</b>             |       |     |                                        |                                                                                   |            |            |            |            |            |
| Naphthalene             | mg/kg | 0.5 |                                        |                                                                                   | 1.8        | 7          | 2.8        | 1.2        | na         |
| Acenaphthylene          | mg/kg | 0.5 |                                        |                                                                                   | 1.4        | 3.6        | 2.8        | 2          | na         |
| Acenaphthene            | mg/kg | 0.5 |                                        |                                                                                   | nd         | 1.4        | 2.2        | nd         | na         |
| Fluorene                | mg/kg | 0.5 |                                        |                                                                                   | 1.2        | 3.6        | 6          | 1.6        | na         |
| Phenanthrene            | mg/kg | 0.5 |                                        |                                                                                   | 5.4        | 15         | 4.8        | 12         | na         |
| Anthracene              | mg/kg | 0.5 |                                        |                                                                                   | 1.8        | 6.2        | 6.8        | 3.6        | na         |
| Fluoranthene            | mg/kg | 0.5 |                                        |                                                                                   | 6.8        | 12         | 11         | 16         | na         |
| Pyrene                  | mg/kg | 0.5 |                                        |                                                                                   | 8.4        | 13         | 19         | 19         | na         |
| Benzo(a)anthracene      | mg/kg | 0.5 |                                        |                                                                                   | 5.4        | 8.2        | 6.4        | 12         | na         |
| Chrysene                | mg/kg | 0.5 |                                        |                                                                                   | 3.4        | 5.2        | 4.4        | 7.8        | na         |
| Benzo(b)(k)fluoranthene | mg/kg | 1   |                                        |                                                                                   | 7          | 9          | 5          | 14         | na         |
| Benzo(a)pyrene          | mg/kg | 0.5 | 5                                      | 1                                                                                 | <b>4.6</b> | <b>7</b>   | <b>5.4</b> | <b>11</b>  | <b>2.8</b> |
| Indeno(1,2,3-cd)pyrene  | mg/kg | 0.5 |                                        |                                                                                   | 3.2        | 4.2        | 2.6        | 6.2        | 2          |



**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                      |            |                 |                                  | GASWORKS AREA                                                         |                |                |                |                |                |
|----------------------|------------|-----------------|----------------------------------|-----------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Location             | Consultant | Sample Location | Sample Depth (metres)            | CH2M HILL SB08                                                        | CH2M HILL SB08 | CH2M HILL SB08 | CH2M HILL BH10 | CH2M HILL BH10 | CH2M HILL BH11 |
|                      |            |                 |                                  | 0.00-0.10                                                             | 1.00-1.10      | 1.60-1.70      | 0.00-0.10      | 0.30           | 1.20-1.30      |
| Analyte              | Units      | LOR             | NEHF - Level F Monographs (1996) | NSW EPA Guidelines for the Assessment of Service Station Sites (1994) |                |                |                |                |                |
| Heptachlor epoxide   | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| Endosulphan I        | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| Chlordane-trans      | mg/kg      | 0.1             | 250                              | na                                                                    | na             | na             | na             | na             | na             |
| Chlordane-cis        | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| trans-Nonachlor      | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| 4,4'-DDE             | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| Endrin               | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| 4,4'-DDD             | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| Endosulphan II       | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| 4,4'-DDT             | mg/kg      | 0.1             | 1000                             | na                                                                    | na             | na             | na             | na             | na             |
| Endosulphan sulphate | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| Methoxychlor         | mg/kg      | 0.1             |                                  | na                                                                    | na             | na             | na             | na             | na             |
| <b>PCBs</b>          |            |                 |                                  |                                                                       |                |                |                |                |                |
| Arochlor 1016        | mg/kg      | 1               |                                  | na                                                                    | na             | nd             | na             | na             | na             |
| Arochlor 1221        | mg/kg      | 1               |                                  | na                                                                    | na             | nd             | na             | na             | na             |
| Arochlor 1232        | mg/kg      | 1               |                                  | na                                                                    | na             | nd             | na             | na             | na             |
| Arochlor 1242        | mg/kg      | 1               |                                  | na                                                                    | na             | nd             | na             | na             | na             |
| Arochlor 1248        | mg/kg      | 1               |                                  | na                                                                    | na             | nd             | na             | na             | na             |
| Arochlor 1254        | mg/kg      | 1               |                                  | na                                                                    | na             | nd             | na             | na             | na             |
| Arochlor 1260        | mg/kg      | 1               |                                  | na                                                                    | na             | nd             | na             | na             | na             |
| <b>Total PCBs</b>    |            |                 | 50                               | na                                                                    | na             | 0              | na             | na             | na             |

NOTE:

**Exceeds NEHF- Level F (1996)**

**Exceeds NSW EPA Guidelines for the Assessment of Service Station Sites (1995)**

n/a = not applicable

LOR = Laboratory Limits of Reporting

na = not selected for analysis

nd = not detected above laboratory LOR

\* = sample required dilution

TABLE 6.3  
SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA

| Location              |  |  |  | GASWORKS AREA |           |           |           |           |           |           |           |
|-----------------------|--|--|--|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Consultant            |  |  |  | CH2M HILL     | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL |
| Sample Location       |  |  |  | BH11          | BH12      | BH12      | BH12      | BH12      | BH12      | BH12      | BH13      |
| Sample Depth (metres) |  |  |  | 3.00-3.10     | 0.00-0.10 | 0.90-1.00 | 2.00-2.10 | 4.40-4.50 | 0.00-0.10 | 0.00-0.10 |           |

| Analyte                     | Units | LOR  | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |    |      |     |    |    |    |      |
|-----------------------------|-------|------|----------------------------------------|-----------------------------------------------------------------------------------|----|------|-----|----|----|----|------|
| HEAVY METALS                |       |      |                                        |                                                                                   |    |      |     |    |    |    |      |
| Arsenic                     | mg/kg | 5    | 500                                    |                                                                                   | nd | 40   | nd  | na | na | na | 57   |
| Cadmium                     | mg/kg | 0.5  | 100                                    |                                                                                   | nd | nd   | nd  | na | na | na | nd   |
| Chromium                    | mg/kg | 5    | 500                                    |                                                                                   | 18 | 20   | 7   | na | na | na | 12   |
| Copper                      | mg/kg | 5    | 5000                                   |                                                                                   | nd | 86   | 9   | na | na | na | 110  |
| Nickel                      | mg/kg | 2    | 3000                                   |                                                                                   | 2  | 18   | nd  | na | na | na | 14   |
| Lead                        | mg/kg | 5    | 1500                                   | 300                                                                               | 13 | 170  | 19  | na | na | na | 190  |
| Zinc                        | mg/kg | 5    | 35000                                  |                                                                                   | 8  | 200  | 9   | na | na | na | 150  |
| Mercury                     | mg/kg | 0.05 | 75                                     |                                                                                   | nd | 0.15 | nd  | na | na | na | 0.13 |
| Total Cyanide               | mg/kg | 0.5  | 2500                                   |                                                                                   | nd | 3.4  | 3.4 | 3  | nd | nd | na   |
| VOCs                        |       |      |                                        |                                                                                   |    |      |     |    |    |    |      |
| Benzene                     | mg/kg | 0.5  |                                        | 1                                                                                 | na | na   | nd  | na | na | na | na   |
| Bromobenzene                | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Bromochloromethane          | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Bromodichloromethane        | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Bromoform                   | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Bromomethane                | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| n-Butylbenzene              | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| sec-Butylbenzene            | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| tert-Butylbenzene           | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Carbon Tetrachloride        | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| cis-1,2-Dichloroethene      | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Chlorobenzene               | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Chloroethane                | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Chloroform                  | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Chloromethane               | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| 2-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| 4-Chlorotoluene             | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Dibromochloromethane        | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| 1,2-Dibromomethane (EDB)    | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |
| Dibromomethane              | mg/kg | 1    |                                        |                                                                                   | na | na   | nd  | na | na | na | na   |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

| Location              |  |  |  | GASWORKS AREA |           |           |           |           |           |           |           |           |
|-----------------------|--|--|--|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Consultant            |  |  |  | CH2M HILL     | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL |
| Sample Location       |  |  |  | BH11          | BH12      | BH12      | BH12      | BH12      | BH12      | BH12      | BH12      | BH13      |
| Sample Depth (metres) |  |  |  | 3.00-3.10     | 0.00-0.10 | 0.90-1.00 | 2.00-2.10 | 4.40-4.50 | 0.00-0.10 |           |           |           |

|                             |       |     |  | NEHF - Level F | NSW EPA               |
|-----------------------------|-------|-----|--|----------------|-----------------------|
|                             |       |     |  | Monographs     | Guidelines for the    |
|                             |       |     |  | (1996)         | Assessment of         |
|                             |       |     |  |                | Service Station Sites |
| Analyte                     | Units | LOR |  |                | (1994)                |
| 1,2-Dichlorobenzene         | mg/kg | 1   |  |                | na                    |
| 1,3-Dichlorobenzene         | mg/kg | 1   |  |                | na                    |
| 1,4-Dichlorobenzene         | mg/kg | 1   |  |                | na                    |
| Dichlorodifluoromethane     | mg/kg | 1   |  |                | na                    |
| 1,1-Dichloroethene          | mg/kg | 1   |  |                | na                    |
| 1,2-Dichloroethane          | mg/kg | 1   |  |                | na                    |
| 1,1-Dichloroethane          | mg/kg | 1   |  |                | na                    |
| cis-1,2-Dichloroethene      | mg/kg | 1   |  |                | na                    |
| trans-1,2-Dichloroethene    | mg/kg | 1   |  |                | na                    |
| 1,2-Dichloropropane         | mg/kg | 1   |  |                | na                    |
| 1,3-Dichloropropane         | mg/kg | 1   |  |                | na                    |
| 2,2-Dichloropropane         | mg/kg | 1   |  |                | na                    |
| 1,1-Dichloropropylene       | mg/kg | 1   |  |                | na                    |
| cis-1,3-Dichloropropylene   | mg/kg | 1   |  |                | na                    |
| trans-1,3-Dichloropropylene | mg/kg | 1   |  |                | na                    |
| Ethylbenzene                | mg/kg | 1   |  |                | 3.1                   |
| Hexachlorobutadiene         | mg/kg | 1   |  |                | na                    |
| Isopropylene                | mg/kg | 1   |  |                | na                    |
| p-Isopropyltoluene          | mg/kg | 1   |  |                | na                    |
| Methylene chloride          | mg/kg | 1   |  |                | na                    |
| Naphthalene                 | mg/kg | 1   |  |                | na                    |
| n-Propylbenzene             | mg/kg | 1   |  |                | na                    |
| Styrene                     | mg/kg | 1   |  |                | na                    |
| 1,1,1,2-Tetrachloroethane   | mg/kg | 1   |  |                | na                    |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 1   |  |                | na                    |
| Tetrachloroethene           | mg/kg | 1   |  |                | na                    |
| Toluene                     | mg/kg | 1   |  | 1.4            | na                    |
| 1,2,3-Trichlorobenzene      | mg/kg | 1   |  |                | na                    |
| 1,2,4-Trichlorobenzene      | mg/kg | 1   |  |                | na                    |
| 1,1,1-Trichloroethane       | mg/kg | 1   |  |                | na                    |
| 1,1,2-Trichloroethane       | mg/kg | 1   |  |                | na                    |
| Trichloroethene             | mg/kg | 1   |  |                | na                    |

TABLE 6.3  
SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA

| Location              |  |  |  | GASWORKS AREA |           |           |           |           |           |           |           |
|-----------------------|--|--|--|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Consultant            |  |  |  | CH2M HILL     | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL |
| Sample Location       |  |  |  | BH11          | BH12      | BH12      | BH12      | BH12      | BH12      | BH12      | BH13      |
| Sample Depth (metres) |  |  |  | 3.00-3.10     | 0.00-0.10 | 0.90-1.00 | 2.00-2.10 | 4.40-4.50 | 0.00-0.10 | 0.00-0.10 |           |

| Analyte                  | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) | na | na  | na | na  | na  | na  | na  |
|--------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|----|-----|----|-----|-----|-----|-----|
| Trichlorofluoromethane   | mg/kg | 1   |                                        |                                                                                   | na | na  | nd | na  | na  | na  | na  |
| 1,2,3-Trichloropropane   | mg/kg | 1   |                                        |                                                                                   | na | na  | nd | na  | na  | na  | na  |
| 1,2,4-Trimethylbenzene   | mg/kg | 1   |                                        |                                                                                   | na | na  | nd | na  | na  | na  | na  |
| 1,3,5-Trimethylbenzene   | mg/kg | 1   |                                        |                                                                                   | na | na  | nd | na  | na  | na  | na  |
| Vinyl chloride           | mg/kg | 1   |                                        |                                                                                   | na | na  | nd | na  | na  | na  | na  |
| ortho-Xylene             | mg/kg | 1   |                                        | 14                                                                                | na | na  | nd | na  | na  | na  | na  |
| meta- & para-Xylene      | mg/kg | 1   |                                        |                                                                                   | na | na  | nd | na  | na  | na  | na  |
| TPH                      |       |     |                                        |                                                                                   |    |     |    |     |     |     |     |
| C6-C9                    | mg/kg | 10  |                                        | 65                                                                                | na | na  | na | na  | na  | 9   | na  |
| C10-C14                  | mg/kg | 10  |                                        |                                                                                   | na | na  | na | na  | na  | 300 | na  |
| C15-C28                  | mg/kg | 50  |                                        |                                                                                   | na | na  | na | na  | na  | 420 | na  |
| C29-C36                  | mg/kg | 50  |                                        |                                                                                   | na | na  | na | na  | na  | nd  | na  |
| Total C10-C36            | mg/kg |     |                                        | 1000                                                                              | na | na  | na | na  | na  | 720 | na  |
| BTEX                     |       |     |                                        |                                                                                   |    |     |    |     |     |     |     |
| Benzene                  | mg/kg | 0.5 |                                        | 1                                                                                 | na | na  | na | nd  | nd  | 1   | na  |
| Toluene                  | mg/kg | 1   |                                        | 1.4                                                                               | na | na  | na | nd  | nd  | 3   | na  |
| Ethylbenzene             | mg/kg | 1   |                                        | 3.1                                                                               | na | na  | na | nd  | nd  | nd  | na  |
| Total Xylenes            | mg/kg | 3   |                                        | 14                                                                                | na | na  | na | nd  | nd  | 4   | na  |
| PAHs                     |       |     |                                        |                                                                                   |    |     |    |     |     |     |     |
| Naphthalene              | mg/kg | 0.5 |                                        |                                                                                   | na | 0.8 | nd | 0.6 | 0.6 | 84  | 0.5 |
| Acenaphthylene           | mg/kg | 0.5 |                                        |                                                                                   | na | 1.6 | nd | nd  | nd  | 2.6 | 0.9 |
| Acenaphthene             | mg/kg | 0.5 |                                        |                                                                                   | na | nd  | nd | nd  | nd  | 2.6 | nd  |
| Fluorene                 | mg/kg | 0.5 |                                        |                                                                                   | na | nd  | nd | nd  | nd  | 14  | nd  |
| Phenanthrene             | mg/kg | 0.5 |                                        |                                                                                   | na | 3.2 | nd | nd  | nd  | 34  | 3.6 |
| Anthracene               | mg/kg | 0.5 |                                        |                                                                                   | na | 0.9 | nd | nd  | nd  | 10  | 1   |
| Fluoranthene             | mg/kg | 0.5 |                                        |                                                                                   | na | 5.4 | nd | nd  | nd  | 20  | 5.2 |
| Pyrene                   | mg/kg | 0.5 |                                        |                                                                                   | na | 7   | nd | nd  | nd  | 16  | 6.6 |
| Benzo(a)anthracene       | mg/kg | 0.5 |                                        |                                                                                   | na | 4.8 | nd | nd  | nd  | 9   | 3.6 |
| Chrysene                 | mg/kg | 0.5 |                                        |                                                                                   | na | 3.6 | nd | nd  | nd  | 6.4 | 2.6 |
| Benzo(b)&(k)fluoranthene | mg/kg | 1   |                                        |                                                                                   | na | 8   | nd | nd  | nd  | 11  | 6   |
| Benzo(a)pyrene           | mg/kg | 0.5 | 5                                      | 1                                                                                 | na | 5.8 | nd | nd  | nd  | 8.4 | 4.6 |
| Indeno(1,2,3-cd)pyrene   | mg/kg | 0.5 |                                        |                                                                                   | na | 4.2 | nd | nd  | nd  | 4   | 2.6 |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA     |                   |                   |                   |                   |                   |                   |                   |
|----------|------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>BH11 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH13 |
|          |            |                 |                       | 3.00-3.10         | 0.00-0.10         | 0.90-1.00         | 2.00-2.10         | 4.40-4.50         | 0.00-0.10         |                   |                   |

  

| Analyte                         | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |           |             |           |            |              |             |           |
|---------------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|-----------|-------------|-----------|------------|--------------|-------------|-----------|
| Dibenz(a,h)anthracene           | mg/kg | 0.5 |                                        |                                                                                   | na        | 0.6         | nd        | nd         | nd           | nd          | nd        |
| Benzo(g,h,i)perylene            | mg/kg | 0.5 |                                        |                                                                                   | na        | 3.4         | nd        | nd         | nd           | 2.4         | 2         |
| <b>Total PAHs</b>               | mg/kg |     | 100                                    | 20                                                                                | <b>na</b> | <b>49.3</b> | <b>0</b>  | <b>0.6</b> | <b>224.4</b> | <b>39.2</b> |           |
| <b>Phenols</b>                  |       |     |                                        |                                                                                   |           |             |           |            |              |             |           |
| Phenol                          | mg/kg | 0.5 | 42500                                  |                                                                                   | na        | na          | na        | na         | na           | 8.6         | na        |
| 2-Chlorophenol                  | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 2-Methylphenol                  | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | 6.4         | na        |
| 3-Methylphenol & 4-Methylphenol | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | 11          | na        |
| 2-Nitrophenol                   | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 2,4-Dimethylphenol              | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | 8.2         | na        |
| 2,4-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 2,6-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 4-Chloro-3-methylphenol         | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 2,4,5-Trichlorophenol           | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 2,4,6-Trichlorophenol           | mg/kg | 0.5 |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 2,4-Dinitrophenol               | mg/kg | 2   |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 4-Nitrophenol                   | mg/kg | 1   |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | 1   |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 4,6-Dinitro-2-methylphenol      | mg/kg | 2   |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| Pentachlorophenol               | mg/kg | 1   |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg | 2   |                                        |                                                                                   | na        | na          | na        | na         | na           | nd*         | na        |
| <b>Total Phenols</b>            | mg/kg |     |                                        |                                                                                   | <b>na</b> | <b>na</b>   | <b>na</b> | <b>na</b>  | <b>na</b>    | <b>34.2</b> | <b>na</b> |
| <b>OCPs</b>                     |       |     |                                        |                                                                                   |           |             |           |            |              |             |           |
| HCB                             | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| alpha-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| gamma-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| Heptachlor                      | mg/kg | 0.1 | 50                                     |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| Aldrin                          | mg/kg | 0.1 | 50                                     |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| Dieldrin                        | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| beta-BHC                        | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| delta-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na        | na         | na           | na          | na        |
| Oxychlordane                    | mg/kg | 0.1 |                                        |                                                                                   | na        | na          | na        | na         | na           | na          | na        |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                      |            |                 |                                        | GASWORKS AREA                                                                     |                   |                   |                   |                   |                   |
|----------------------|------------|-----------------|----------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location             | Consultant | Sample Location | Sample Depth (metres)                  | CH2M HILL<br>BH11                                                                 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH12 | CH2M HILL<br>BH13 |
|                      |            |                 |                                        | 3.00-3.10                                                                         | 0.00-0.10         | 0.90-1.00         | 2.00-2.10         | 4.40-4.50         | 0.00-0.10         |
| Analyte              | Units      | LOR             | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |                   |                   |                   |                   |                   |
| Heptachlor epoxide   | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Endosulphan I        | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Chlordane-trans      | mg/kg      | 0.1             | 250                                    | na                                                                                | na                | na                | na                | na                | na                |
| Chlordane-cis        | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| trans-Nonachlor      | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| 4,4'-DDE             | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Endrin               | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| 4,4'-DDD             | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Endosulphan II       | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| 4,4'-DDT             | mg/kg      | 0.1             | 1000                                   | na                                                                                | na                | na                | na                | na                | na                |
| Endosulphan sulphate | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Methoxychlor         | mg/kg      | 0.1             |                                        | na                                                                                | na                | na                | na                | na                | na                |
| <b>PCBs</b>          |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |
| Arochlor 1016        | mg/kg      | 1               |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Arochlor 1221        | mg/kg      | 1               |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Arochlor 1232        | mg/kg      | 1               |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Arochlor 1242        | mg/kg      | 1               |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Arochlor 1248        | mg/kg      | 1               |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Arochlor 1254        | mg/kg      | 1               |                                        | na                                                                                | na                | na                | na                | na                | na                |
| Arochlor 1260        | mg/kg      | 1               |                                        | na                                                                                | na                | na                | na                | na                | na                |
| <b>Total PCBs</b>    |            |                 | 50                                     | na                                                                                | na                | na                | na                | na                | na                |

NOTE:

**Exceeds NEHF- Level F (1996)**

**Exceeds NSW EPA Guidelines for the Assessment of Service Station Sites (1995)**

n/a = not applicable

LOR = Laboratory Limits of Reporting

na = not selected for analysis

nd = not detected above laboratory LOR

\* = sample required dilution



**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

| Location              |  |  |  | GASWORKS AREA |           |           |           |           |           |           |  |
|-----------------------|--|--|--|---------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Consultant            |  |  |  | CH2M HILL     | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL | CH2M HILL |  |
| Sample Location       |  |  |  | BH13          | BH13      | BH14      | BH14      | BH14      | BH14      | BH15      |  |
| Sample Depth (metres) |  |  |  | 0.20-0.30     | 0.90-1.00 | 0.00-0.10 | 0.20-0.30 | 0.90-1.00 | 0.90-1.00 | 0.00-0.10 |  |

|                             |       |     |  | NEHF - Level F        | NSW EPA            |
|-----------------------------|-------|-----|--|-----------------------|--------------------|
|                             |       |     |  | Monographs            | Guidelines for the |
|                             |       |     |  | (1996)                | Assessment of      |
|                             |       |     |  | Service Station Sites |                    |
| Analyte                     | Units | LOR |  |                       | (1994)             |
| 1,2-Dichlorobenzene         | mg/kg | 1   |  |                       | na                 |
| 1,3-Dichlorobenzene         | mg/kg | 1   |  |                       | na                 |
| 1,4-Dichlorobenzene         | mg/kg | 1   |  |                       | na                 |
| Dichlorodifluoromethane     | mg/kg | 1   |  |                       | na                 |
| 1,1-Dichloroethene          | mg/kg | 1   |  |                       | na                 |
| 1,2-Dichloroethane          | mg/kg | 1   |  |                       | na                 |
| 1,1-Dichloroethane          | mg/kg | 1   |  |                       | na                 |
| cis-1,2-Dichloroethene      | mg/kg | 1   |  |                       | na                 |
| trans-1,2-Dichloroethene    | mg/kg | 1   |  |                       | na                 |
| 1,2-Dichloropropane         | mg/kg | 1   |  |                       | na                 |
| 1,3-Dichloropropane         | mg/kg | 1   |  |                       | na                 |
| 2,2-Dichloropropane         | mg/kg | 1   |  |                       | na                 |
| 1,1-Dichloropropylene       | mg/kg | 1   |  |                       | na                 |
| cis-1,3-Dichloropropylene   | mg/kg | 1   |  |                       | na                 |
| trans-1,3-Dichloropropylene | mg/kg | 1   |  |                       | na                 |
| Ethylbenzene                | mg/kg | 1   |  |                       | 3.1                |
| Hexachlorobutadiene         | mg/kg | 1   |  |                       | na                 |
| Isopropylene                | mg/kg | 1   |  |                       | na                 |
| p-Isopropyltoluene          | mg/kg | 1   |  |                       | na                 |
| Methylene chloride          | mg/kg | 1   |  |                       | na                 |
| Naphthalene                 | mg/kg | 1   |  |                       | na                 |
| n-Propylbenzene             | mg/kg | 1   |  |                       | na                 |
| Styrene                     | mg/kg | 1   |  |                       | na                 |
| 1,1,1,2-Tetrachloroethane   | mg/kg | 1   |  |                       | na                 |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 1   |  |                       | na                 |
| Tetrachloroethene           | mg/kg | 1   |  |                       | na                 |
| Toluene                     | mg/kg | 1   |  | 1.4                   | na                 |
| 1,2,3-Trichlorobenzene      | mg/kg | 1   |  |                       | na                 |
| 1,2,4-Trichlorobenzene      | mg/kg | 1   |  |                       | na                 |
| 1,1,1-Trichloroethane       | mg/kg | 1   |  |                       | na                 |
| 1,1,2-Trichloroethane       | mg/kg | 1   |  |                       | na                 |
| Trichloroethene             | mg/kg | 1   |  |                       | na                 |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                          |            |                 |                                        | GASWORKS AREA                                                                     |                   |                   |                   |                   |                   |                   |  |
|--------------------------|------------|-----------------|----------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Location                 | Consultant | Sample Location | Sample Depth (metres)                  | CH2M HILL<br>BH13                                                                 | CH2M HILL<br>BH13 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH15 |  |
|                          |            |                 |                                        | 0.20-0.30                                                                         | 0.90-1.00         | 0.00-0.10         | 0.20-0.30         | 0.90-1.00         | 0.00-0.10         | 0.00-0.10         |  |
|                          |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |                   |  |
| Analyte                  | Units      | LOR             | NEHF - Level I<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |                   |                   |                   |                   |                   |                   |  |
| Trichlorofluoromethane   | mg/kg      | 1               |                                        | na                                                                                | nd                | na                | na                | na                | na                | na                |  |
| 1,2,3-Trichloropropane   | mg/kg      | 1               |                                        | na                                                                                | nd                | na                | na                | na                | na                | na                |  |
| 1,2,4-Trimethylbenzene   | mg/kg      | 1               |                                        | na                                                                                | nd                | na                | na                | na                | na                | na                |  |
| 1,3,5-Trimethylbenzene   | mg/kg      | 1               |                                        | na                                                                                | nd                | na                | na                | na                | na                | na                |  |
| Vinyl chloride           | mg/kg      | 1               |                                        | na                                                                                | nd                | na                | na                | na                | na                | na                |  |
| ortho-Xylene             | mg/kg      | 1               |                                        | na                                                                                | nd                | na                | na                | na                | na                | na                |  |
| meta- & para-Xylene      | mg/kg      | 1               |                                        | na                                                                                | nd                | na                | na                | na                | na                | na                |  |
| TPH                      |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |                   |  |
| C6-C9                    | mg/kg      | 10              |                                        | 24                                                                                | na                | na                | nd                | na                | na                | na                |  |
| C10-C14                  | mg/kg      | 10              |                                        | 400                                                                               | na                | na                | nd                | na                | na                | na                |  |
| C15-C28                  | mg/kg      | 50              |                                        | 3400                                                                              | na                | na                | nd                | na                | na                | na                |  |
| C29-C36                  | mg/kg      | 50              |                                        | 3300                                                                              | na                | na                | nd                | na                | na                | na                |  |
| Total C10-C36            | mg/kg      |                 |                                        | 7100                                                                              | na                | na                | 0                 | na                | na                | na                |  |
| BTEX                     |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |                   |  |
| Benzene                  | mg/kg      | 0.5             |                                        | 1.6                                                                               | nd                | na                | nd                | 4.6               | na                | na                |  |
| Toluene                  | mg/kg      | 1               |                                        | 5                                                                                 | nd                | na                | nd                | nd                | na                | na                |  |
| Ethylbenzene             | mg/kg      | 1               |                                        | nd                                                                                | nd                | na                | nd                | 26                | na                | na                |  |
| Total Xylenes            | mg/kg      | 3               |                                        | 9                                                                                 | nd                | na                | nd                | 48                | na                | na                |  |
| PAHs                     |            |                 |                                        |                                                                                   |                   |                   |                   |                   |                   |                   |  |
| Naphthalene              | mg/kg      | 0.5             |                                        | 5                                                                                 | nd                | nd                | nd                | 3.8               | 0.7               | 0.7               |  |
| Acenaphthylene           | mg/kg      | 0.5             |                                        | 9.4                                                                               | nd                | 0.7               | nd                | nd                | 0.6               | 0.6               |  |
| Acenaphthene             | mg/kg      | 0.5             |                                        | 1                                                                                 | nd                | nd                | nd                | nd                | nd                | nd                |  |
| Fluorene                 | mg/kg      | 0.5             |                                        | 4.6                                                                               | nd                | nd                | nd                | nd                | nd                | nd                |  |
| Phenanthrene             | mg/kg      | 0.5             |                                        | 39                                                                                | nd                | 1.4               | nd                | nd                | 3.2               | 3.2               |  |
| Anthracene               | mg/kg      | 0.5             |                                        | 11                                                                                | nd                | 0.5               | nd                | nd                | 1.2               | 1.2               |  |
| Fluoranthene             | mg/kg      | 0.5             |                                        | 50                                                                                | 0.6               | 3.4               | nd                | nd                | 7.2               | 7.2               |  |
| Pyrene                   | mg/kg      | 0.5             |                                        | 67                                                                                | nd                | 5.2               | nd                | nd                | 11                | 11                |  |
| Benzo(a)anthracene       | mg/kg      | 0.5             |                                        | 30                                                                                | nd                | 3.2               | nd                | nd                | 7.6               | 7.6               |  |
| Chrysene                 | mg/kg      | 0.5             |                                        | 25                                                                                | nd                | 2                 | nd                | nd                | 5                 | 5                 |  |
| Benzo(b)&(k)fluoranthene | mg/kg      | 1               |                                        | 56                                                                                | nd                | 6                 | nd                | nd                | 16                | 16                |  |
| Benzo(a)pyrene           | mg/kg      | 0.5             | 5                                      | 39                                                                                | nd                | 5                 | nd                | nd                | 16                | 16                |  |
| Indeno(1,2,3-cd)pyrene   | mg/kg      | 0.5             |                                        | 41                                                                                | nd                | 3                 | nd                | nd                | 9.8               | 9.8               |  |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|          |            |                 |                       | GASWORKS AREA     |                   |                   |                   |                   |                   |                   |                   |
|----------|------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>BH13 | CH2M HILL<br>BH13 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH15 |
|          |            |                 |                       | 0.20-0.30         | 0.90-1.00         | 0.00-0.10         | 0.20-0.30         | 0.90-1.00         | 0.90-1.00         | 0.00-0.10         |                   |

  

| Analyte                         | Units | LOR | NEHF - Level F<br>Monographs<br>(1996) | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) | 6.2          | nd         | nd          | nd        | nd         | nd          | 1.2       |
|---------------------------------|-------|-----|----------------------------------------|-----------------------------------------------------------------------------------|--------------|------------|-------------|-----------|------------|-------------|-----------|
| Dibenz(a,h)anthracene           | mg/kg | 0.5 |                                        |                                                                                   | 29           | nd         | 2.4         | nd        | nd         | nd          | 9.2       |
| Benzo(g,h,i)perylene            | mg/kg | 0.5 |                                        |                                                                                   |              |            |             |           |            |             |           |
| <b>Total PAHs</b>               | mg/kg |     | 100                                    | 20                                                                                | <b>413.2</b> | <b>0.6</b> | <b>32.8</b> | <b>0</b>  | <b>3.8</b> | <b>88.7</b> |           |
| <b>Phenols</b>                  |       |     |                                        |                                                                                   |              |            |             |           |            |             |           |
| Phenol                          | mg/kg | 0.5 | 42500                                  |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2-Chlorophenol                  | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2-Methylphenol                  | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 3-Methylphenol & 4-Methylphenol | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2-Nitrophenol                   | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2,4-Dimethylphenol              | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2,4-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2,6-Dichlorophenol              | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 4-Chloro-3-methylphenol         | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2,4,5-Trichlorophenol           | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2,4,6-Trichlorophenol           | mg/kg | 0.5 |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2,4-Dinitrophenol               | mg/kg | 2   |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 4-Nitrophenol                   | mg/kg | 1   |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 2,3,4,6-Tetrachlorophenol       | mg/kg | 1   |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 4,6-Dinitro-2-methylphenol      | mg/kg | 2   |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| Pentachlorophenol               | mg/kg | 1   |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| 4,6-Dinitro-2-sec-butylphenol   | mg/kg | 2   |                                        |                                                                                   | nd*          | na         | na          | na        | na         | na          | na        |
| <b>Total Phenols</b>            | mg/kg |     |                                        |                                                                                   | <b>0</b>     | <b>na</b>  | <b>na</b>   | <b>na</b> | <b>na</b>  | <b>na</b>   | <b>na</b> |
| <b>OCPs</b>                     |       |     |                                        |                                                                                   |              |            |             |           |            |             |           |
| HCB                             | mg/kg | 0.1 |                                        |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| alpha-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| gamma-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| Heptachlor                      | mg/kg | 0.1 | 50                                     |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| Aldrin                          | mg/kg | 0.1 | 50                                     |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| Dieldrin                        | mg/kg | 0.1 |                                        |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| beta-BHC                        | mg/kg | 0.1 |                                        |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| delta-BHC                       | mg/kg | 0.1 |                                        |                                                                                   | na           | na         | na          | na        | na         | na          | na        |
| Oxychlordane                    | mg/kg | 0.1 |                                        |                                                                                   | na           | na         | na          | na        | na         | na          | na        |

**TABLE 6.3**  
**SOIL ANALYTICAL RESULTS - FORMER GASWORKS AREA**

|                      |            |                 |                       | GASWORKS AREA                          |                   |                                                                                   |                   |                   |                   |                   |                   |
|----------------------|------------|-----------------|-----------------------|----------------------------------------|-------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Location             | Consultant | Sample Location | Sample Depth (metres) | CH2M HILL<br>BH13                      | CH2M HILL<br>BH13 | CH2M HILL<br>BH14                                                                 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH14 | CH2M HILL<br>BH15 |
|                      |            |                 |                       | 0.20-0.30                              | 0.90-1.00         | 0.00-0.10                                                                         | 0.20-0.30         | 0.90-1.00         | 0.90-1.00         | 0.00-0.10         |                   |
| Analyte              |            | Units           | LOR                   | NEHF - Level F<br>Monographs<br>(1996) |                   | NSW EPA<br>Guidelines for the<br>Assessment of<br>Service Station Sites<br>(1994) |                   |                   |                   |                   |                   |
|                      |            |                 |                       |                                        |                   |                                                                                   |                   |                   |                   |                   |                   |
| Heptachlor epoxide   |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Endosulphan I        |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Chlordane-trans      |            | mg/kg           | 0.1                   | 250                                    |                   |                                                                                   |                   | na                | na                | na                | na                |
| Chlordane-cis        |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| trans-Nonachlor      |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| 4,4'-DDE             |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Endrin               |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| 4,4'-DDD             |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Endosulphan II       |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| 4,4'-DDT             |            | mg/kg           | 0.1                   | 1000                                   |                   |                                                                                   |                   | na                | na                | na                | na                |
| Endosulphan sulphate |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Methoxychlor         |            | mg/kg           | 0.1                   |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| <b>PCBs</b>          |            |                 |                       |                                        |                   |                                                                                   |                   |                   |                   |                   |                   |
| Arochlor 1016        |            | mg/kg           | 1                     |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Arochlor 1221        |            | mg/kg           | 1                     |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Arochlor 1232        |            | mg/kg           | 1                     |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Arochlor 1242        |            | mg/kg           | 1                     |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Arochlor 1248        |            | mg/kg           | 1                     |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Arochlor 1254        |            | mg/kg           | 1                     |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| Arochlor 1260        |            | mg/kg           | 1                     |                                        |                   |                                                                                   |                   | na                | na                | na                | na                |
| <b>Total PCBs</b>    |            |                 |                       | 50                                     |                   |                                                                                   |                   | na                | na                | 0                 | na                |

NOTE:

**Exceeds NEHF- Level F (1996)**

**Exceeds NSW EPA Guidelines for the Assessment of Service Station Sites (1995)**

n/a = not applicable  
 LOR = Laboratory Limits of Reporting  
 na = not selected for analysis  
 nd = not detected above laboratory LOR  
 \* = sample required dilution