TABLE 6.1
SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	SB31	SB31	SB32	SB32	SB32	BH33
Sample Depth (metres)	0.00-0.10	0.60-0.70	0.00-0.10	1.10-1.20	1.60-1.70	0.2

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

TABLE 6.1
SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	SB31	SB31	SB32	SB32	SB32	BH33
Sample Depth (metres)	0.00-0.10	0.60-0.70	0.00-0.10	1.10-1.20	1.60-1.70	0.2

Analyte	Units	LOR	NEHF - Level F Monographs (1996)	NSW EPA Guidelines for the Assessment of Service Station Sites (1994)						
HEAVY METALS										
Arsenic	mg/kg	5	500		18	15	12	nd	nd	19
Cadmium	mg/kg	0.5	100		nd	0.6	nd	nd	nd	nd
Chromium	mg/kg	5	500		nd	10	13	nd	nd	10
Copper	mg/kg	5	5000		170	3600	200	nd	9	120
Nickel	mg/kg	2	3000		8	18	16	nd	nd	17
Lead	mg/kg	5	1500	300	30	430	76	8	11	120
Zinc	mg/kg	5	35000		100	530	120	25	56	70
Mercury	mg/kg	0.05	75		nd	0.32	0.08	0.06	nd	0.26
Total Cyanide	mg/kg	0.5	2500		na	nd	na	na	nd	na
VOCs										
Benzene	mg/kg	0.5			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	nd
sec-Butylbenzene	mg/kg	1			na	na	na	na	na	nd
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

TABLE 6.1

SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	BH29	BH29	BH30	BH30	BH31	BH31
Sample Depth (metres)	0.2	0.6	0.2	0.6	0.20-0.30	0.6

Analyte	Units	LOR	NEHF - Level F Monographs (1996)	NSW EPA Guidelines for the Assessment of Service Station Sites (1994)						
4,4'-DDD	mg/kg	0.1			na	na	na	na	nd	na
Endosulphan II	mg/kg	0.1			na	na	na	na	nd	na
4,4'-DDT	mg/kg	0.1	1000		na	na	na	na	nd	na
Endosulphan sulphate	mg/kg	0.1			na	na	na	na	nd	na
Methoxychlor	mg/kg	0.1			na	na	na	na	nd	na
PCBs										
Arochlor 1016	mg/kg	1			na	na	na	na	nd	na
Arochlor 1221	mg/kg	1			na	na	na	na	nd	na
Arochlor 1232	mg/kg	1			na	na	na	na	nd	na
Arochlor 1242	mg/kg	1			na	na	na	na	nd	na
Arochlor 1248	mg/kg	1			na	na	na	na	nd	na
Arochlor 1254	mg/kg	1			na	na	na	na	nd	na
Arochlor 1260	mg/kg	1			na	na	na	na	nd	na
Total PCBs			50		**na**	**na**	**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

TABLE 6.1

SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	BH29	BH29	BH30	BH30	BH31	BH31
Sample Depth (metres)	0.2	0.6	0.2	0.6	0.20-0.30	0.6

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

TABLE 6.1
SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	BH29	BH29	BH30	BH30	BH31	BH31
Sample Depth (metres)	0.2	0.6	0.2	0.6	0.20-0.30	0.6

Analyte	Units	LOR	NEHF - Level F Monographs (1996)	NSW EPA Guidelines for the Assessment of Service Station Sites (1994)						
Total Xylenes	mg/kg	3		14	nd	nd	na	nd	na	na
PAHs										
Naphthalene	mg/kg	0.5			nd	nd	0.8	nd	na	na
Acenaphthylene	mg/kg	0.5			nd	nd	nd	nd	na	na
Acenaphthene	mg/kg	0.5			nd	nd	nd	nd	na	na
Fluorene	mg/kg	0.5			nd	nd	nd	nd	na	na
Phenanthrene	mg/kg	0.5			1.6	1.6	1.8	1.6	na	na
Anthracene	mg/kg	0.5			nd	nd	nd	nd	na	na
Fluoranthene	mg/kg	0.5			3.4	2.2	2.2	4	na	na
Pyrene	mg/kg	0.5			4	2.4	1.8	4.4	na	na
Benzo(a)anthracene	mg/kg	0.5			2.6	1.6	1.6	3.6	na	na
Chrysene	mg/kg	0.5			1.6	0.9	0.8	1.6	na	na
Benzo(b)&(k)fluoranthene	mg/kg	1			8	5	5	12	na	na
Benzo(a)pyrene	mg/kg	0.5	5	1	2.4	1.4	1.2	4.4	na	na
Indeno(1,2,3-cd)pyrene	mg/kg	0.5			2	1.2	1	3.6	na	na
Dibenz(a,h)anthracene	mg/kg	0.5			nd	nd	nd	nd	na	na
Benzo(g,h,i)perylene	mg/kg	0.5			1.2	0.7	0.6	2	na	na
Total PAHs	mg/kg		100	20	26.8	17	16.8	37.2	na	na
Phenols										
Phenol	mg/kg	0.5	42500		na	na	na	na	na	na
2-Chlorophenol	mg/kg	0.5			na	na	na	na	na	na
2-Methylphenol	mg/kg	0.5			na	na	na	na	na	na
3-Methylphenol & 4-Methylphenol	mg/kg	0.5			na	na	na	na	na	na
2-Nitorphenol	mg/kg	0.5			na	na	na	na	na	na
2,4-Dimethylphenol	mg/kg	0.5			na	na	na	na	na	na
2,4-Dichlorophenol	mg/kg	0.5			na	na	na	na	na	na
2,6-Dichlorophenol	mg/kg	0.5			na	na	na	na	na	na

TABLE 6.1

SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	BH29	BH29	BH30	BH30	BH31	BH31
Sample Depth (metres)	0.2	0.6	0.2	0.6	0.20-0.30	0.6

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

TABLE 6.1

SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	BH29	BH29	BH30	BH30	BH31	BH31
Sample Depth (metres)	0.2	0.6	0.2	0.6	0.20-0.30	0.6

Analyte	Units	LOR	NEHF - Level F Monographs (1996)	NSW EPA Guidelines for the Assessment of Service Station Sites (1994)						
4-Chlorotoluene	mg/kg	1			na	nd	na	na	nd	na
Dibromochloromethane	mg/kg	1			na	nd	na	na	nd	na
1,2-Dibromo-3-Chloropropane	mg/kg	1			na	nd	na	na	nd	na
1,2-Dibromomethane (EDB)	mg/kg	1			na	nd	na	na	nd	na
Dibromomethane	mg/kg	1			na	nd	na	na	nd	na
1,2-Dichlorobenzene	mg/kg	1			na	nd	na	na	nd	na
1,3-Dichlorobenzene	mg/kg	1			na	nd	na	na	nd	na
1,4-Dichlorobenzene	mg/kg	1			na	nd	na	na	nd	na
Dichlorodifluoromethane	mg/kg	1			na	nd	na	na	nd	na
1,1-Dichloroethene	mg/kg	1			na	nd	na	na	nd	na
1,2-Dichloroethane	mg/kg	1			na	nd	na	na	nd	na
1,1-Dichloroethane	mg/kg	1			na	nd	na	na	nd	na
cis-1,2-Dichloroethene	mg/kg	1			na	nd	na	na	nd	na
trans-1,2-Dichloroethene	mg/kg	1			na	nd	na	na	nd	na
1,2-Dichloropropane	mg/kg	1			na	nd	na	na	nd	na
1,3-Dichloropropane	mg/kg	1			na	nd	na	na	nd	na
2,2-Dichloropropane	mg/kg	1			na	nd	na	na	nd	na
1,1-Dichloropropylene	mg/kg	1			na	nd	na	na	nd	na
cis-1,3-Dichloropropylene	mg/kg	1			na	nd	na	na	nd	na
trans-1,3-Dichloropropylene	mg/kg	1			na	nd	na	na	nd	na
Ethylbenzene	mg/kg	1		3.1	na	nd	na	na	nd	na
Hexachlorobutadiene	mg/kg	1			na	nd	na	na	nd	na
Isopropylene	mg/kg	1			na	nd	na	na	nd	na
p-Isopropyltoluene	mg/kg	1			na	nd	na	na	nd	na
Methylene chloride	mg/kg	1			na	nd	na	na	nd	na
Naphthalene	mg/kg	1			na	nd	na	na	nd	na
n-Propylbenzene	mg/kg	1			na	nd	na	na	nd	na

TABLE 6.1

SOIL ANALYTICAL RESULTS - FORMER CLEANING SHED AREA

Location	CLEANING SHED AREA					
Consultant	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL	CH2M HILL
Sample Location	BH29	BH29	BH30	BH30	BH31	BH31
Sample Depth (metres)	0.2	0.6	0.2	0.6	0.20-0.30	0.6

Analyte	Units	LOR	NEHF - Level 1 Monographs (1996)	NSW EPA Guidelines for the Assessment of Service Station Sites (1994)						
HEAVY METALS										
Arsenic	mg/kg	5	500		69	52	79	72	160	nd
Cadmium	mg/kg	0.5	100		3	1.2	1	2.2	nd	nd
Chromium	mg/kg	5	500		27	24	180	24	24	8
Copper	mg/kg	5	5000		460	250	170	540	160	8
Nickel	mg/kg	2	3000		25	25	150	41	21	nd
Lead	mg/kg	5	1500	300	250	220	140	340	140	11
Zinc	mg/kg	5	35000		270	420	220	330	130	nd
Mercury	mg/kg	0.05	75		0.21	0.18	0.15	0.87	0.16	nd
Total Cyanide	mg/kg	0.5	2500		na	na	na	na	na	na
VOCs										
Benzene	mg/kg	0.5		1	na	nd	na	na	nd	na
Bromobenzene	mg/kg	1			na	nd	na	na	nd	na
Bromochloromethane	mg/kg	1			na	nd	na	na	nd	na
Bromodichloromethane	mg/kg	1			na	nd	na	na	nd	na
Bromoform	mg/kg	1			na	nd	na	na	nd	na
Bromomethane	mg/kg	1			na	nd	na	na	nd	na
n-Butylbenzene	mg/kg	1			na	nd	na	na	nd	na
sec-Butylbenzene	mg/kg	1			na	nd	na	na	nd	na
tert-Butylbenzene	mg/kg	1			na	nd	na	na	nd	na
Carbon Tetrachloride	mg/kg	1			na	nd	na	na	nd	na
cis-1,2-Dichloroethene	mg/kg	1			na	nd	na	na	nd	na
Chlorobenzene	mg/kg	1			na	nd	na	na	nd	na
Chloroethane	mg/kg	1			na	nd	na	na	nd	na
Chloroform	mg/kg	1			na	nd	na	na	nd	na
Chloromethane	mg/kg	1			na	nd	na	na	nd	na
2-Chlorotoluene	mg/kg	1			na	nd	na	na	nd	na