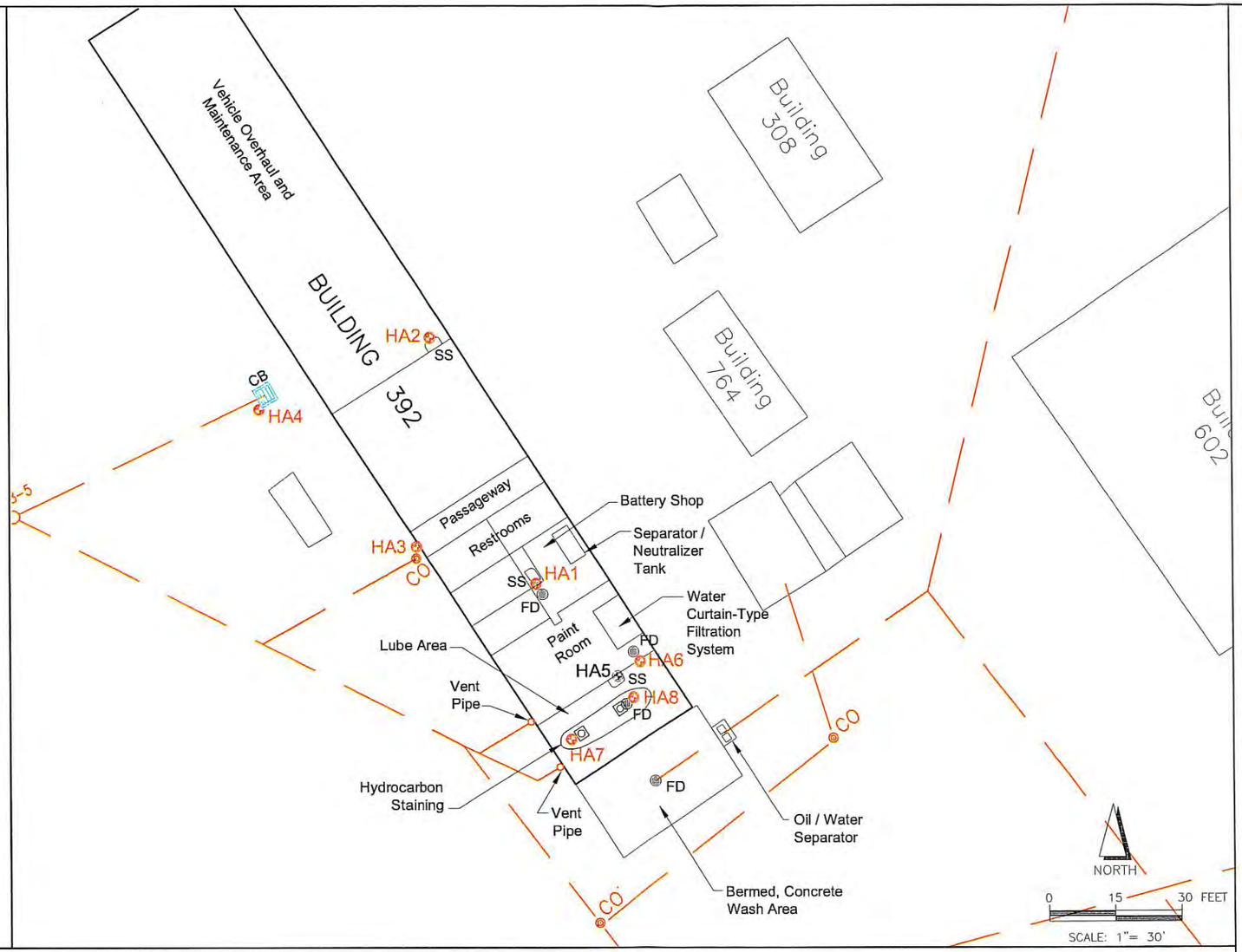
PRL 392

Battery Shop and Location of Soil Sample Borehole HA1 (Facing Southwest)

Hydrocarbon Stain Near Hydraulic Hoist and Location of Soil Sample Borehole HA7 (Facing Southeast)

Borehole HA2 adjacent to drain near service sink in overhaul area (Facing Southeast)



LEGEND:

- Edge of Road
- FD — Floor Drain
- HA3 — Hand Auger Soil Sample Location
- Sewer Line
- CO — Sewer Line Clean Out
- MH — Sewer Line Manhole
- CB — Storm Drain Catch Basin
- SS — Service Sink
- Staining

Background:
The building was identified as a vehicle maintenance shop (1958 and 1973), and an aircraft ground support equipment shop in 1997. Eight locations of concern are associated with this site. TAA 392A (SWMU/AOC 124), and TAA 392B (SWMU/AOC 271) are both inactive; no further action (NFA) was recommended to DTSC for both TAA sites. UST 392A, UST 392B, and UST 392C have all been removed; all three were closed by the Orange County Health Care Agency (OCHCA). UST 392D was removed; however, additional sampling has been recommended. UST 392E and UST 392F have both been removed; both sites were closed by OCHCA. SWMU/AOC 213 is located in the concrete bermed area, adjoining the southern end of Building 392 (this SWMU was documented to be associated with Building 764). Based on sampling results, RWQCB concurrence for NFA was obtained for SWMU 213.

Sampling and Analysis Summary:
Eight soil samples were collected from eight boreholes (HA-1-HA6 at depth ranges of 1.5'-2.5', 1.0'-2.0', 1.5'-3.5', 1.5'-2.5', 0.5'-1.5', and 0.5'-1.5' below ground surface [bgs], respectively; HA7 and HA8 at depths of 2.5' bgs). HA1 was analyzed for pH, metals and SVOCs; HA2-HA6 were analyzed for VOCs, SVOCs, PAHs, and metals; HA7 and HA8 were analyzed for VOCs, SVOCs, TPH, PAHs, PCBs, and metals.

Analytical Results:
No analyte exceeded its residential preliminary remediation goal (PRG). TPH as motor oils, extractables, and volatiles, were detected at maximum (estimated) concentrations of 1,100 mg/kg (HA8), 800 mg/kg (HA8), and 0.02 mg/kg (HA7), respectively.
No SVOCs were detected at borehole HA1.

Risk Screening:
The maximum concentration detected for each analyte from all samples collected at the site was used as the exposure point concentration and compared to EPA Region 9 PRGs to calculate the cumulative risk ratios. The results indicated no significant cancer risk; the noncancer risk ratio was calculated to be 1.36, exceeding the accepted threshold of 1 (see table for summary). The primary contributors were iron, aluminum, and manganese, and the site-wide maximum concentrations that were detected were of the same order of magnitude as background. Based on this and the historical activities associated with the site, it is very likely the evidenced metals concentrations are indicative of background conditions (see table for summary).

Conclusion:
No further action was recommended and concurred with by EPA and DTSC per letters dated April 11 and 24, 2003.

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Risk Screening Results - Comparison to EPA Region 9 Residential PRGs and MCAS El Toro Background Values

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Cancer Risk Screening Value	Noncancer Risk Screening Value	Site-Wide Maximum Value	Site-Wide Maximum Location	Risk Ratio Cancer	Risk Ratio Noncancer
Volatile Organic Compounds (VOCs)								
Methylene Chloride	µg/kg	--	9.1E+03	2.0E+06	2	HA4@1.5'-2.5'	<0.01	<0.01
Metals								
Aluminum	mg/kg	14800	--	7.6E+04	16900	HA5@0.5'-1.5'	--	0.22
Barium	mg/kg	173	--	5.4E+03	175	HA1@1.5'-2.5'	--	0.03
Cobalt	mg/kg	6.98	9.0E+02	1.4E+03	9.1	HA5@0.5'-1.5'	0.01	<0.01
Copper	mg/kg	6.41	--	3.1E+03	9.8	HA1@1.5'-2.5'	--	<0.01
Iron	mg/kg	18400	--	2.4E+04	20900	HA5@0.5'-1.5'	--	0.89
Manganese	mg/kg	291	--	1.8E+03	359	HA5@0.5'-1.5'	--	0.20
				Cumulative Risk Ratio:			0.01	1.36

Notes: -- indicates the specified criteria does not exist. Bold indicates concentration above MCAS El Toro Background value or PRG value, whichever is higher.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening PRL 392

Environmental Baseline Survey

Date: 08-03	Former MCAS El Toro	Figure 8
Project No. 54506	EARTH TECH — A tyco INTERNATIONAL LTD. COMPANY	

File: M:\Projects\54506_(C10-104)\EBS\CAD\Phasell_Investigation\Transferrable_PRLs\Tech Sheets\Final\PRL392_F.dwg Time: Aug 18, 2003 - 9:27am

Table 8. Analytical Results, PRL-392

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL392-HA3 1.0'-3.5' bgs LJ117	PRL392-HA4 1.5'-2.5' bgs LJ118	PRL392-HA2 1.0'-2.0' bgs LJ119	PRL392-HA1 1.5'-2.5' bgs LJ120	PRL392-HA6 0.5'-1.5' bgs LJ121	PRL392-HA5 0.5'-1.5' bgs LJ122
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	µg/kg	--	3.2E+03	3.2E+03	5.2E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,1,1-Trichloroethane	µg/kg	--	1.2E+06	--	2.0E+06	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,1,2,2-Tetrachloroethane	µg/kg	--	4.1E+02	4.1E+02	1.0E+06	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,1,2-Trichloroethane	µg/kg	--	7.3E+02	7.3E+02	3.6E+04	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,1,2-Trichlorotrifluoroethane	µg/kg	--	5.6E+06	--	2.1E+07	5.2 UJ	5.1 UJ	5.7 UJ	NA	5 UJ	6.7 UJ
1,1-Dichloroethane	µg/kg	--	5.1E+05	--	5.1E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,1-Dichloroethene	µg/kg	--	1.2E+05	--	1.2E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,2-Dichloroethane	µg/kg	--	2.8E+02	2.8E+02	8.5E+03	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,2-Dichloropropane	µg/kg	--	3.4E+02	3.4E+02	6.0E+03	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	--	5.2 UJ	5.1 UJ	5.7 UJ	NA	5 UJ	6.7 UJ
2-Butanone	µg/kg	--	7.3E+06	--	7.3E+06	100 U	100 U	110 U	NA	100 U	130 U
2-Hexanone	µg/kg	--	--	--	--	52 UJ	51 UJ	57 UJ	NA	50 UJ	67 UJ
4-Methyl-2-pentanone	µg/kg	--	7.9E+05	--	7.9E+05	52 UJ	51 UJ	57 UJ	NA	50 UJ	67 UJ
Acetone	µg/kg	--	1.6E+06	--	1.6E+06	100 U	100 U	110 UJ	NA	100 UJ	130 UJ
Benzene	µg/kg	--	6.0E+02	6.0E+02	7.1E+03	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Bromodichloromethane	µg/kg	--	8.2E+02	8.2E+02	2.2E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Bromoform	µg/kg	--	6.2E+04	6.2E+04	1.2E+06	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Bromomethane	µg/kg	--	3.9E+03	--	3.9E+03	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Carbon Disulfide	µg/kg	--	3.6E+05	--	3.6E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Carbon Tetrachloride	µg/kg	--	2.5E+02	2.5E+02	2.2E+03	5.2 UJ	5.1 UJ	5.7 UJ	NA	5 UJ	6.7 UJ
Chlorobenzene	µg/kg	--	1.5E+05	--	1.5E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Chloroethane	µg/kg	--	3.0E+03	3.0E+03	5.0E+06	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Chloroform	µg/kg	--	9.4E+02	9.4E+02	3.6E+03	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Chloromethane	µg/kg	--	1.2E+03	1.2E+03	--	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
cis-1,2-Dichloroethene	µg/kg	--	4.3E+04	--	4.3E+04	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
cis-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Dibromochloromethane	µg/kg	--	1.1E+03	1.1E+03	3.8E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Dichlorodifluoromethane (Freon-12)	µg/kg	--	9.4E+04	--	9.4E+04	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	--	5.2 UJ	5.1 UJ	5.7 UJ	NA	5 UJ	6.7 UJ
Ethyl tertiary butyl ether	µg/kg	--	--	--	--	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Ethylbenzene	µg/kg	--	8.9E+03	8.9E+03	1.9E+06	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Methylene Chloride	µg/kg	--	9.1E+03	9.1E+03	2.0E+06	5.2 U	5.1 U	5.7 U	NA	0.8 J	6.7 U
Methyl-tert butyl ether (MTBE)	µg/kg	--	1.7E+04	1.7E+04	5.8E+06	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Styrene	µg/kg	--	1.7E+06	--	4.4E+06	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Tertiary amyl methyl ether	µg/kg	--	--	--	--	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Tertiary Butyl Alcohol	µg/kg	--	--	--	--	21 UJ	20 UJ	23 UJ	NA	20 UJ	27 UJ
Tetrachloroethene (PCE)	µg/kg	--	1.5E+03	1.5E+03	3.6E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Toluene	µg/kg	--	5.2E+05	--	6.6E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Total Xylenes	µg/kg	--	2.8E+05	--	2.8E+05	16 U	15 U	17 UJ	NA	15 UJ	20 UJ
Trans-1,2-Dichloroethene	µg/kg	--	7.0E+04	--	7.0E+04	5.2 UJ	5.1 UJ	5.7 UJ	NA	5 UJ	6.7 UJ
Trans-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Trichloroethene (TCE)	µg/kg	--	5.3E+01	5.3E+01	1.6E+04	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Trichlorofluoromethane (Freon-11)	µg/kg	--	3.9E+05	--	3.9E+05	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Vinyl Chloride	µg/kg	--	7.9E+01	7.9E+01	3.9E+04	5.2 U	5.1 U	5.7 U	NA	5 U	6.7 U
Semivolatile Organic Compounds (SVOCs)											
1,2,4-Trichlorobenzene	µg/kg	--	6.5E+05	--	6.5E+05	570 U	540 U	560 U	NA	520 U	660 U
1,2-Dichlorobenzene	µg/kg	--	3.7E+05	--	1.1E+06	570 U	540 U	560 U	NA	520 U	660 U
1,3-Dichlorobenzene	µg/kg	--	1.6E+04	--	1.6E+04	570 U	540 U	560 U	NA	520 U	660 U
1,4-Dichlorobenzene	µg/kg	--	3.5E+03	3.5E+03	4.8E+05	570 U	540 U	560 U	NA	520 U	660 U
2,2'-Oxybis(1-chloropropane)	µg/kg	--	2.9E+03	2.9E+03	9.5E+05	570 U	540 U	560 U	NA	520 U	660 U
2,4,5-Trichlorophenol	µg/kg	--	6.1E+06	--	6.1E+06	570 U	540 U	560 U	NA	520 U	660 U

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SVOCs, Continued											
2,4,6-Trichlorophenol	µg/kg	--	6.1E+03	7.0E+03	6.1E+03	570 U	540 U	560 U	NA	520 U	660 U
2,4-Dichlorophenol	µg/kg	--	1.8E+05	--	1.8E+05	570 U	540 U	560 U	NA	520 U	660 U
2,4-Dimethylphenol	µg/kg	--	1.2E+06	--	1.2E+06	570 U	540 U	560 U	NA	520 U	660 U
2,4-Dinitrophenol	µg/kg	--	1.2E+05	--	1.2E+05	2800 U	2700 U	2800 U	NA	2600 U	3300 U
2,4-Dinitrotoluene	µg/kg	--	1.2E+05	--	1.2E+05	570 U	540 U	560 U	NA	520 U	660 U
2,6-Dinitrotoluene	µg/kg	--	6.1E+04	--	6.1E+04	570 U	540 U	560 U	NA	520 U	660 U
2-Chloronaphthalene	µg/kg	--	4.9E+06	--	4.9E+06	570 U	540 U	560 U	NA	520 U	660 U
2-Chlorophenol	µg/kg	--	6.3E+04	--	6.3E+04	570 U	540 U	560 U	NA	520 U	660 U
2-Methylphenol	µg/kg	--	3.1E+06	--	3.1E+06	570 U	540 U	560 U	NA	520 U	660 U
2-Nitroaniline	µg/kg	--	1.8E+03	--	1.8E+03	2800 U	2700 U	2800 U	NA	2600 U	3300 U
2-Nitrophenol	µg/kg	--	--	--	--	570 U	540 U	560 U	NA	520 U	660 U
3,3'-Dichlorobenzidine	µg/kg	--	1.1E+03	1.1E+03	--	1100 U	1100 U	1100 U	NA	1000 U	1300 U
3/4-methylphenol	µg/kg	--	3.1E+05	--	3.1E+05	570 U	540 U	560 U	NA	520 U	660 U
3-Nitroaniline	µg/kg	--	--	--	--	2800 U	2700 U	2800 U	NA	2600 U	3300 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	2800 U	2700 U	2800 U	NA	2600 U	3300 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	--	570 UJ	540 UJ	560 UJ	NA	520 UJ	660 UJ
4-Chloro-3-Methylphenol	µg/kg	--	--	--	--	570 U	540 U	560 U	NA	520 U	660 U
4-Chloroaniline	µg/kg	--	2.4E+05	--	2.4E+05	1100 U	1100 U	1100 U	NA	1000 U	1300 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	--	570 U	540 U	560 U	NA	520 U	660 U
4-Nitroaniline	µg/kg	--	--	--	--	2800 U	2700 U	2800 U	NA	2600 U	3300 U
4-Nitrophenol	µg/kg	--	--	--	--	2800 UJ	2700 UJ	2800 UJ	NA	2600 UJ	3300 UJ
bis(2-chlorethoxy)methane	µg/kg	--	--	--	--	570 U	540 U	560 U	NA	520 U	660 U
bis(2-chloroethyl)ether	µg/kg	--	2.1E+02	2.1E+02	--	570 U	540 U	560 U	NA	520 U	660 U
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	3.5E+04	1.2E+06	570 U	540 U	560 U	NA	520 U	660 U
Butylbenzylphthalate	µg/kg	--	1.2E+07	--	1.2E+07	570 U	540 U	560 U	NA	520 U	660 U
Carbazole	µg/kg	--	2.4E+04	2.4E+04	--	570 U	540 U	560 U	NA	520 U	660 U
Dibenzofuran	µg/kg	--	2.9E+05	--	2.9E+05	570 U	540 U	560 U	NA	520 U	660 U
Diethylphthalate	µg/kg	--	4.9E+07	--	4.9E+07	570 U	540 U	560 U	NA	520 U	660 U
Dimethylphthalate	µg/kg	--	1.0E+08	--	6.1E+08	570 U	540 U	560 U	NA	520 U	660 U
Di-n-butylphthalate	µg/kg	--	--	--	--	570 U	540 U	560 U	NA	520 U	660 U
Di-n-octylphthalate	µg/kg	--	2.4E+06	--	2.4E+06	570 U	540 U	560 U	NA	520 U	660 U
Hexachlorobenzene	µg/kg	--	3.0E+02	3.0E+02	4.9E+04	570 U	540 U	560 U	NA	520 U	660 U
Hexachlorobutadiene	µg/kg	--	6.2E+03	6.2E+03	1.8E+04	570 U	540 U	560 U	NA	520 U	660 U
Hexachlorocyclopentadiene	µg/kg	--	3.7E+05	--	3.7E+05	2800 U	2700 U	2800 U	NA	2600 U	3300 U
Hexachloroethane	µg/kg	--	3.5E+04	3.5E+04	6.1E+04	570 U	540 U	560 U	NA	520 U	660 U
Isophorone	µg/kg	--	5.1E+05	5.1E+05	1.2E+07	570 U	540 U	560 U	NA	520 U	660 U
Nitrobenzene	µg/kg	--	2.0E+04	--	2.0E+04	570 U	540 U	560 U	NA	520 U	660 U
n-Nitrosodi-n-propylamine	µg/kg	--	7.0E+01	7.0E+01	--	570 U	540 U	560 U	NA	520 U	660 U
n-Nitroso-diphenylamine	µg/kg	--	9.9E+04	9.9E+04	--	2800 U	2700 U	2800 U	NA	2600 U	3300 U
Pentachlorophenol	µg/kg	--	3.0E+03	3.0E+03	1.4E+06	1900 U	1800 U	1900 U	NA	1800 U	2200 U
Phenol	µg/kg	--	3.7E+07	--	3.7E+07	570 U	540 U	560 U	NA	520 U	660 U
Polynuclear Aromatic Hydrocarbons (PAHs)											
2-Methylnaphthalene	µg/kg	--	--	--	--	28 U	27 U	28 U	NA	26 U	33 U
Acenaphthene	µg/kg	--	3.7E+06	--	3.7E+06	28 U	27 U	28 U	NA	26 U	33 U
Acenaphthylene	µg/kg	--	--	--	--	28 U	27 U	28 U	NA	26 U	33 U
Anthracene	µg/kg	--	2.2E+07	--	2.2E+07	28 U	27 U	28 U	NA	26 U	33 U
Benzo(a)anthracene	µg/kg	--	6.2E+02	6.2E+02	--	28 UJ	27 UJ	28 UJ	NA	26 UJ	33 UJ
Benzo(a)pyrene	µg/kg	--	6.2E+01	6.2E+01	--	28 U	27 U	28 U	NA	26 U	33 U
Benzo(b)fluoranthene	µg/kg	--	6.2E+02	6.2E+02	--	28 U	27 U	28 U	NA	26 U	33 U
Benzo(g,h,i)perylene	µg/kg	--	--	--	--	28 U	27 U	28 U	NA	26 U	33 U
Benzo(k)fluoranthene	µg/kg	--	3.8E+02	3.8E+02	--	28 U	27 U	28 U	NA	26 U	33 U

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PAHs, Continued											
Chrysene	µg/kg	--	3.8E+03	3.8E+03	--	28 UJ	27 UJ	28 UJ	NA	26 UJ	33 UJ
Dibenz(a,h)anthracene	µg/kg	--	6.2E+01	6.2E+01	--	28 U	27 U	28 U	NA	26 U	33 U
Fluoranthene	µg/kg	--	2.3E+06	--	2.3E+06	28 U	27 U	28 U	NA	26 U	33 U
Fluorene	µg/kg	--	2.8E+06	--	2.8E+06	28 U	27 U	28 U	NA	26 U	33 U
Indeno(1,2,3-cd)pyrene	µg/kg	--	6.2E+02	6.2E+02	--	28 U	27 U	28 U	NA	26 U	33 U
Naphthalene	µg/kg	--	5.6E+04	--	5.6E+04	28 U	27 U	28 U	NA	26 U	33 U
Phenanthrene	µg/kg	--	--	--	--	28 UJ	27 UJ	28 UJ	NA	26 UJ	33 UJ
Pyrene	µg/kg	--	2.3E+06	--	2.3E+06	28 U	27 U	28 U	NA	26 U	33 U
Polychlorinated Biphenyls (PCBs)											
Aroclor 1016	µg/kg	--	3.9E+03	6.3E+03	3.9E+03	NA	NA	NA	NA	NA	NA
Aroclor 1221	µg/kg	--	2.2E+02	2.2E+02	--	NA	NA	NA	NA	NA	NA
Aroclor 1232	µg/kg	--	2.2E+02	2.2E+02	--	NA	NA	NA	NA	NA	NA
Aroclor 1242	µg/kg	--	2.2E+02	2.2E+02	--	NA	NA	NA	NA	NA	NA
Aroclor 1248	µg/kg	--	2.2E+02	2.2E+02	--	NA	NA	NA	NA	NA	NA
Aroclor 1254	µg/kg	--	2.2E+02	2.2E+02	1.1E+03	NA	NA	NA	NA	NA	NA
Aroclor 1260	µg/kg	--	2.2E+02	2.2E+02	--	NA	NA	NA	NA	NA	NA
Hydrocarbons											
Motor Oils	mg/kg	--	--	--	--	NA	NA	NA	NA	NA	NA
Total Extractable Petroleum Hydrocarbons	mg/kg	--	--	--	--	NA	NA	NA	NA	NA	NA
Total Volatile Petroleum Hydrocarbons	mg/kg	--	--	--	--	NA	NA	NA	NA	NA	NA
Metals											
Aluminum	mg/kg	14800	76100	--	7.6E+04	10300	5570	6030	14300	4040	16900
Antimony	mg/kg	3.06	3.1E+01	--	3.1E+01	14 U	13 U	14 U	14 U	12 U	16 U
Arsenic	mg/kg	6.86	3.9E-01	3.9E-01	2.2E+01	4	2.3	2.9	4.4	1.9	5.6
Barium	mg/kg	173	5.4E+03	--	5.4E+03	120	85.5	106	175	72.8	174
Berillium	mg/kg	0.669	1.5E+02	1.1E+03	1.5E+02	0.91 UJ	0.86 U	0.9 UJ	0.15 UJ	0.83 U	1 U
Cadmium	mg/kg	2.35	1.7E+00	1.7E+00	1.7E+00	0.41	0.31 UJ	0.52	0.58	0.14 UJ	0.6
Calcium	mg/kg	46000	--	--	--	5030	6650	4160	7780	4980	7640
Chromium	mg/kg	26.9	2.1E+02	2.1E+02	--	11.4	5.9	7.4	14.8	4.4	16.2
Cobalt	mg/kg	6.98	9.0E+02	9.0E+02	1.4E+03	7.1	4.2	4.2	8.3	3.4	9.1
Copper	mg/kg	6.41	3.1E+03	--	3.1E+03	6	3.3	5.8	9.8	2.1	8.9
Iron	mg/kg	18400	2.4E+04	--	2.4E+04	14800 J	9390 J	9640 J	18700 J	7270 J	20900 J
Lead	mg/kg	15.1	1.5E+02	--	--	5.5	1.8	37.7	6	1.1 UJ	6.7
Magnesium	mg/kg	8370	--	--	--	5290 J	3520 J	3260 J	8190 J	2540 J	8600 J
Manganese	mg/kg	291	1.8E+03	--	1.8E+03	254 J	177 J	164 J	312 J	154 J	359 J
Mercury	mg/kg	0.22	2.4E+01	--	2.4E+01	0.021	0.018	0.024	0.042	0.01	0.071
Nickel	mg/kg	15.3	1.6E+03	--	1.6E+03	7.1	3.9	5.1	10.3	2.9 UJ	9.6
Potassium	mg/kg	4890	--	--	--	3450 J	2100 J	1870 J	4380 J	1490 J	4680 J
Selenium	mg/kg	0.32	3.9E+02	--	3.9E+02	1.4 U	1.3 U	1.4 U	1 UJ	1.2 U	1.6 U
Silver	mg/kg	0.539	3.9E+02	--	3.9E+02	2.3 U	2.2 U	2.3 U	2.4 U	2.1 U	2.6 U
Sodium	mg/kg	405	--	--	--	450 U	430 U	450 U	480 U	420 U	520 U
Thallium	mg/kg	0.42	5.2E+00	--	5.2E+00	1.8 UJ	1.7 U	1.8 UJ	1.9 UJ	1.7 U	2.1 U
Vanadium	mg/kg	71.8	5.5E+02	--	5.5E+02	31.7	22.5	21.4	40.8	15.9	46.5
Zinc	mg/kg	77.9	2.4E+04	--	2.4E+04	45.9	26.1	35	61.3	20.7	62.5
pH											
pH	pH Units	--	--	--	--	8.25	9.04	8.86	8.4	8.23	7.62

Notes:

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

NA = Not Analyzed

J = The concentration is an estimate

NA = The sample was not analyzed for the specified analyte.

Table 8. Analytical Results, PRL-392

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL392-HA5 (dup) 0.5'-1.5' bgs LJ123	PRL392-HA8 2.5' bgs LJ190	PRL392-HA7 2.5' bgs LJ191	PRL392-HA1 2.5'-3.0' bgs LJ253
Volatile Organic Compounds (VOCs)									
1,1,1,2-Tetrachloroethane	µg/kg	--	3.2E+03	3.2E+03	5.2E+05	5.2 U	6.3 U	5.4 U	NA
1,1,1-Trichloroethane	µg/kg	--	1.2E+06	--	2.0E+06	5.2 U	6.3 U	5.4 U	NA
1,1,2,2-Tetrachloroethane	µg/kg	--	4.1E+02	4.1E+02	1.0E+06	5.2 U	6.3 U	5.4 U	NA
1,1,2-Trichloroethane	µg/kg	--	7.3E+02	7.3E+02	3.6E+04	5.2 U	6.3 U	5.4 U	NA
1,1,2-Trichlorotrifluoroethane	µg/kg	--	5.6E+06	--	2.1E+07	5.2 UJ	6.3 UJ	5.4 UJ	NA
1,1-Dichloroethane	µg/kg	--	5.1E+05	--	5.1E+05	5.2 U	6.3 U	5.4 U	NA
1,1-Dichloroethene	µg/kg	--	1.2E+05	--	1.2E+05	5.2 U	6.3 U	5.4 U	NA
1,2-Dichloroethane	µg/kg	--	2.8E+02	2.8E+02	8.5E+03	5.2 U	6.3 U	5.4 U	NA
1,2-Dichloropropane	µg/kg	--	3.4E+02	3.4E+02	6.0E+03	5.2 U	6.3 U	5.4 U	NA
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	--	5.2 UJ	6.3 UJ	5.4 UJ	NA
2-Butanone	µg/kg	--	7.3E+06	--	7.3E+06	100 U	130 UJ	110 UJ	NA
2-Hexanone	µg/kg	--	--	--	--	52 UJ	63 U	54 U	NA
4-Methyl-2-pentanone	µg/kg	--	7.9E+05	--	7.9E+05	52 UJ	63 U	54 U	NA
Acetone	µg/kg	--	1.6E+06	--	1.6E+06	100 UJ	130 UJ	110 UJ	NA
Benzene	µg/kg	--	6.0E+02	6.0E+02	7.1E+03	5.2 U	6.3 U	5.4 U	NA
Bromodichloromethane	µg/kg	--	8.2E+02	8.2E+02	2.2E+05	5.2 U	6.3 U	5.4 U	NA
Bromoform	µg/kg	--	6.2E+04	6.2E+04	1.2E+06	5.2 U	6.3 U	5.4 U	NA
Bromomethane	µg/kg	--	3.9E+03	--	3.9E+03	5.2 U	6.3 U	5.4 U	NA
Carbon Disulfide	µg/kg	--	3.6E+05	--	3.6E+05	5.2 U	6.3 U	5.4 U	NA
Carbon Tetrachloride	µg/kg	--	2.5E+02	2.5E+02	2.2E+03	5.2 UJ	6.3 UJ	5.4 UJ	NA
Chlorobenzene	µg/kg	--	1.5E+05	--	1.5E+05	5.2 U	6.3 U	5.4 U	NA
Chloroethane	µg/kg	--	3.0E+03	3.0E+03	5.0E+06	5.2 U	6.3 U	5.4 U	NA
Chloroform	µg/kg	--	9.4E+02	9.4E+02	3.6E+03	5.2 U	6.3 U	5.4 U	NA
Chloromethane	µg/kg	--	1.2E+03	1.2E+03	--	5.2 U	6.3 U	5.4 U	NA
cis-1,2-Dichloroethene	µg/kg	--	4.3E+04	--	4.3E+04	5.2 U	6.3 U	5.4 U	NA
cis-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.2 U	6.3 U	5.4 U	NA
Dibromochloromethane	µg/kg	--	1.1E+03	1.1E+03	3.8E+05	5.2 U	6.3 U	5.4 U	NA
Dichlorodifluoromethane (Freon-12)	µg/kg	--	9.4E+04	--	9.4E+04	5.2 U	6.3 U	5.4 U	NA
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	--	5.2 UJ	6.3 U	5.4 U	NA
Ethyl tertiary butyl ether	µg/kg	--	--	--	--	5.2 U	6.3 U	5.4 U	NA
Ethylbenzene	µg/kg	--	8.9E+03	8.9E+03	1.9E+06	5.2 U	6.3 U	5.4 U	NA
Methylene Chloride	µg/kg	--	9.1E+03	9.1E+03	2.0E+06	5.2 U	2 J	5.4 U	NA
Methyl-tert butyl ether (MTBE)	µg/kg	--	1.7E+04	1.7E+04	5.8E+06	5.2 U	6.3 U	5.4 U	NA
Styrene	µg/kg	--	1.7E+06	--	4.4E+06	5.2 U	6.3 U	5.4 U	NA
Tertiary amyl methyl ether	µg/kg	--	--	--	--	5.2 U	6.3 U	5.4 U	NA
Tertiary Butyl Alcohol	µg/kg	--	--	--	--	21 UJ	25 UJ	22 UJ	NA
Tetrachloroethene (PCE)	µg/kg	--	1.5E+03	1.5E+03	3.6E+05	5.2 U	6.3 U	5.4 U	NA
Toluene	µg/kg	--	5.2E+05	--	6.6E+05	5.2 U	6.3 U	5.4 U	NA
Total Xylenes	µg/kg	--	2.8E+05	--	2.8E+05	16 UJ	19 U	16 U	NA
Trans-1,2-Dichloroethene	µg/kg	--	7.0E+04	--	7.0E+04	5.2 UJ	6.3 U	5.4 U	NA
Trans-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.2 U	6.3 U	5.4 U	NA
Trichloroethene (TCE)	µg/kg	--	5.3E+01	5.3E+01	1.6E+04	5.2 U	6.3 U	5.4 U	NA
Trichlorofluoromethane (Freon-11)	µg/kg	--	3.9E+05	--	3.9E+05	5.2 U	6.3 U	5.4 U	NA
Vinyl Chloride	µg/kg	--	7.9E+01	7.9E+01	3.9E+04	5.2 U	6.3 U	5.4 U	NA
Semivolatile Organic Compounds (SVOCs)									
1,2,4-Trichlorobenzene	µg/kg	--	6.5E+05	--	6.5E+05	550 U	610 U	520 U	500 U
1,2-Dichlorobenzene	µg/kg	--	3.7E+05	--	1.1E+06	550 U	610 U	520 U	500 U
1,3-Dichlorobenzene	µg/kg	--	1.6E+04	--	1.6E+04	550 U	610 U	520 U	500 U
1,4-Dichlorobenzene	µg/kg	--	3.5E+03	3.5E+03	4.8E+05	550 U	610 U	520 U	500 U
2,2'-Oxybis(1-chloropropane)	µg/kg	--	2.9E+03	2.9E+03	9.5E+05	550 U	610 U	520 U	500 U
2,4,5-Trichlorophenol	µg/kg	--	6.1E+06	--	6.1E+06	550 U	610 U	520 U	500 U

Table 8. Analytical Results, PRL-392

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL392-HA5 (dup) 0.5'-1.5' bgs LJ123	PRL392-HA8 2.5' bgs LJ190	PRL392-HA7 2.5' bgs LJ191	PRL392-HA1 2.5'-3.0' bgs LJ253
SVOCs, Continued									
2,4,6-Trichlorophenol	µg/kg	--	6.1E+03	7.0E+03	6.1E+03	550 U	610 U	520 U	500 U
2,4-Dichlorophenol	µg/kg	--	1.8E+05	--	1.8E+05	550 U	610 U	520 U	500 U
2,4-Dimethylphenol	µg/kg	--	1.2E+06	--	1.2E+06	550 U	610 U	520 U	500 U
2,4-Dinitrophenol	µg/kg	--	1.2E+05	--	1.2E+05	2800 U	3000 U	2600 U	2500 U
2,4-Dinitrotoluene	µg/kg	--	1.2E+05	--	1.2E+05	550 U	610 U	520 U	500 U
2,6-Dinitrotoluene	µg/kg	--	6.1E+04	--	6.1E+04	550 U	610 U	520 U	500 U
2-Chloronaphthalene	µg/kg	--	4.9E+06	--	4.9E+06	550 U	610 U	520 U	500 U
2-Chlorophenol	µg/kg	--	6.3E+04	--	6.3E+04	550 U	610 U	520 U	500 U
2-Methylphenol	µg/kg	--	3.1E+06	--	3.1E+06	550 U	610 U	520 U	500 U
2-Nitroaniline	µg/kg	--	1.8E+03	--	1.8E+03	2800 U	3000 U	2600 U	2500 U
2-Nitrophenol	µg/kg	--	--	--	--	550 U	610 U	520 U	500 U
3,3'-Dichlorobenzidine	µg/kg	--	1.1E+03	1.1E+03	--	1100 U	1200 U	1000 U	1000 U
3/4-methylphenol	µg/kg	--	3.1E+05	--	3.1E+05	550 U	610 U	520 U	500 U
3-Nitroaniline	µg/kg	--	--	--	--	2800 U	3000 U	2600 U	2500 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	2800 U	3000 U	2600 U	2500 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	--	550 UJ	610 U	520 U	500 U
4-Chloro-3-Methylphenol	µg/kg	--	--	--	--	550 U	610 U	520 U	500 U
4-Chloroaniline	µg/kg	--	2.4E+05	--	2.4E+05	1100 U	1200 U	1000 U	1000 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	--	550 U	610 U	520 U	500 U
4-Nitroaniline	µg/kg	--	--	--	--	2800 U	3000 U	2600 U	2500 U
4-Nitrophenol	µg/kg	--	--	--	--	2800 UJ	3000 U	2600 U	2500 U
bis(2-chlorethoxy)methane	µg/kg	--	--	--	--	550 U	610 U	520 U	500 U
bis(2-chloroethyl)ether	µg/kg	--	2.1E+02	2.1E+02	--	550 U	610 U	520 U	500 U
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	3.5E+04	1.2E+06	550 U	610 U	520 U	500 U
Butylbenzylphthalate	µg/kg	--	1.2E+07	--	1.2E+07	550 U	610 U	520 U	500 U
Carbazole	µg/kg	--	2.4E+04	2.4E+04	--	550 U	610 U	520 U	500 U
Dibenzofuran	µg/kg	--	2.9E+05	--	2.9E+05	550 U	610 U	520 U	500 U
Diethylphthalate	µg/kg	--	4.9E+07	--	4.9E+07	550 U	610 U	520 U	500 U
Dimethylphthalate	µg/kg	--	1.0E+08	--	6.1E+08	550 U	610 U	520 U	500 U
Di-n-butylphthalate	µg/kg	--	--	--	--	550 U	610 U	520 U	500 U
Di-n-octylphthalate	µg/kg	--	2.4E+06	--	2.4E+06	550 U	610 U	520 U	500 U
Hexachlorobenzene	µg/kg	--	3.0E+02	3.0E+02	4.9E+04	550 U	610 U	520 U	500 U
Hexachlorobutadiene	µg/kg	--	6.2E+03	6.2E+03	1.8E+04	550 U	610 U	520 U	500 U
Hexachlorocyclopentadiene	µg/kg	--	3.7E+05	--	3.7E+05	2800 UJ	3000 U	2600 U	2500 U
Hexachloroethane	µg/kg	--	3.5E+04	3.5E+04	6.1E+04	550 U	610 U	520 U	500 U
Isophorone	µg/kg	--	5.1E+05	5.1E+05	1.2E+07	550 U	610 U	520 U	500 U
Nitrobenzene	µg/kg	--	2.0E+04	--	2.0E+04	550 U	610 U	520 U	500 U
n-Nitrosodi-n-propylamine	µg/kg	--	7.0E+01	7.0E+01	--	550 UJ	610 U	520 U	500 U
n-Nitroso-diphenylamine	µg/kg	--	9.9E+04	9.9E+04	--	2800 U	3000 U	2600 U	2500 U
Pentachlorophenol	µg/kg	--	3.0E+03	3.0E+03	1.4E+06	1900 U	2100 U	1800 U	1700 U
Phenol	µg/kg	--	3.7E+07	--	3.7E+07	550 U	610 U	520 U	500 U
Polynuclear Aromatic Hydrocarbons (PAHs)									
2-Methylnaphthalene	µg/kg	--	--	--	--	28 U	30 U	26 U	NA
Acenaphthene	µg/kg	--	3.7E+06	--	3.7E+06	28 U	30 U	26 U	NA
Acenaphthylene	µg/kg	--	--	--	--	28 U	30 U	26 U	NA
Anthracene	µg/kg	--	2.2E+07	--	2.2E+07	28 U	30 U	26 U	NA
Benzo(a)anthracene	µg/kg	--	6.2E+02	6.2E+02	--	28 UJ	30 UJ	26 UJ	NA
Benzo(a)pyrene	µg/kg	--	6.2E+01	6.2E+01	--	28 U	30 U	26 U	NA
Benzo(b)fluoranthene	µg/kg	--	6.2E+02	6.2E+02	--	28 U	30 U	26 U	NA
Benzo(g,h,i)perylene	µg/kg	--	--	--	--	28 U	30 U	26 U	NA
Benzo(k)fluoranthene	µg/kg	--	3.8E+02	3.8E+02	--	28 U	30 UJ	26 UJ	NA

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PAHs, Continued									
Chrysene	µg/kg	--	3.8E+03	3.8E+03	--	28 UJ	30 UJ	26 UJ	NA
Dibenz(a,h)anthracene	µg/kg	--	6.2E+01	6.2E+01	--	28 U	30 U	26 U	NA
Fluoranthene	µg/kg	--	2.3E+06	--	2.3E+06	28 U	30 U	26 U	NA
Fluorene	µg/kg	--	2.8E+06	--	2.8E+06	28 U	30 U	26 U	NA
Indeno(1,2,3-cd)pyrene	µg/kg	--	6.2E+02	6.2E+02	--	28 U	30 U	26 U	NA
Naphthalene	µg/kg	--	5.6E+04	--	5.6E+04	28 U	30 U	26 U	NA
Phenanthrene	µg/kg	--	--	--	--	28 UJ	30 UJ	26 UJ	NA
Pyrene	µg/kg	--	2.3E+06	--	2.3E+06	28 U	30 U	26 U	NA
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	µg/kg	--	3.9E+03	6.3E+03	3.9E+03	NA	40 U	34 U	NA
Aroclor 1221	µg/kg	--	2.2E+02	2.2E+02	--	NA	80 U	68 U	NA
Aroclor 1232	µg/kg	--	2.2E+02	2.2E+02	--	NA	40 U	34 U	NA
Aroclor 1242	µg/kg	--	2.2E+02	2.2E+02	--	NA	40 U	34 U	NA
Aroclor 1248	µg/kg	--	2.2E+02	2.2E+02	--	NA	40 U	34 U	NA
Aroclor 1254	µg/kg	--	2.2E+02	2.2E+02	1.1E+03	NA	40 U	34 U	NA
Aroclor 1260	µg/kg	--	2.2E+02	2.2E+02	--	NA	40 U	34 U	NA
Hydrocarbons									
Motor Oils	mg/kg	--	--	--	--	NA	1100	10 U	NA
Total Extractable Petroleum Hydrocarbons	mg/kg	--	--	--	--	NA	800	10 U	NA
Total Volatile Petroleum Hydrocarbons	mg/kg	--	--	--	--	NA	13 U	0.02 J	NA
Metals									
Aluminum	mg/kg	14800	76100	--	7.6E+04	6140	6100	3810	NA
Antimony	mg/kg	3.06	3.1E+01	--	3.1E+01	13 U	15 U	12 U	NA
Arsenic	mg/kg	6.86	3.9E-01	3.9E-01	2.2E+01	2.5	1.6 UJ	0.68 UJ	NA
Barium	mg/kg	173	5.4E+03	--	5.4E+03	96.4	82.6	65.1	NA
Berillium	mg/kg	0.669	1.5E+02	1.1E+03	1.5E+02	0.88 U	0.97 U	0.83 U	NA
Cadmium	mg/kg	2.35	1.7E+00	1.7E+00	1.7E+00	0.39	0.21 UJ	0.093 UJ	NA
Calcium	mg/kg	46000	--	--	--	5150	6690	4350	NA
Chromium	mg/kg	26.9	2.1E+02	2.1E+02	--	6.6	6.6	4.5	NA
Cobalt	mg/kg	6.98	9.0E+02	9.0E+02	1.4E+03	3.8	3.4	2.3	NA
Copper	mg/kg	6.41	3.1E+03	--	3.1E+03	4.4	2.5	1.3 UJ	NA
Iron	mg/kg	18400	2.4E+04	--	2.4E+04	8920 J	8400	5620	NA
Lead	mg/kg	15.1	1.5E+02	--	--	4.3	1.2	1	NA
Magnesium	mg/kg	8370	--	--	--	3310 J	3130	1860	NA
Manganese	mg/kg	291	1.8E+03	--	1.8E+03	181 J	171	128	NA
Mercury	mg/kg	0.22	2.4E+01	--	2.4E+01	0.026	0.018	0.024	NA
Nickel	mg/kg	15.3	1.6E+03	--	1.6E+03	5.2	4.1	3	NA
Potassium	mg/kg	4890	--	--	--	1780 J	1580	943	NA
Selenium	mg/kg	0.32	3.9E+02	--	3.9E+02	0.95 UJ	0.57 UJ	1.2 U	NA
Silver	mg/kg	0.539	3.9E+02	--	3.9E+02	2.2 U	2.4 U	2.1 U	NA
Sodium	mg/kg	405	--	--	--	440 U	490 U	410 U	NA
Thallium	mg/kg	0.42	5.2E+00	--	5.2E+00	1.8 U	1.9 U	1.7 U	NA
Vanadium	mg/kg	71.8	5.5E+02	--	5.5E+02	20	23.7	12.4	NA
Zinc	mg/kg	77.9	2.4E+04	--	2.4E+04	25.5	22.2	14	NA
pH									
pH	pH Units	--	--	--	--	7.27	8.41	8.31	NA

Notes:

µg/kg = micrograms per kilogram
mg/kg = miligrams per kilogram
-- = The regulatory threshold does not exist for the specified analyte.
U = The analyte was not detected above the detection limit shown.

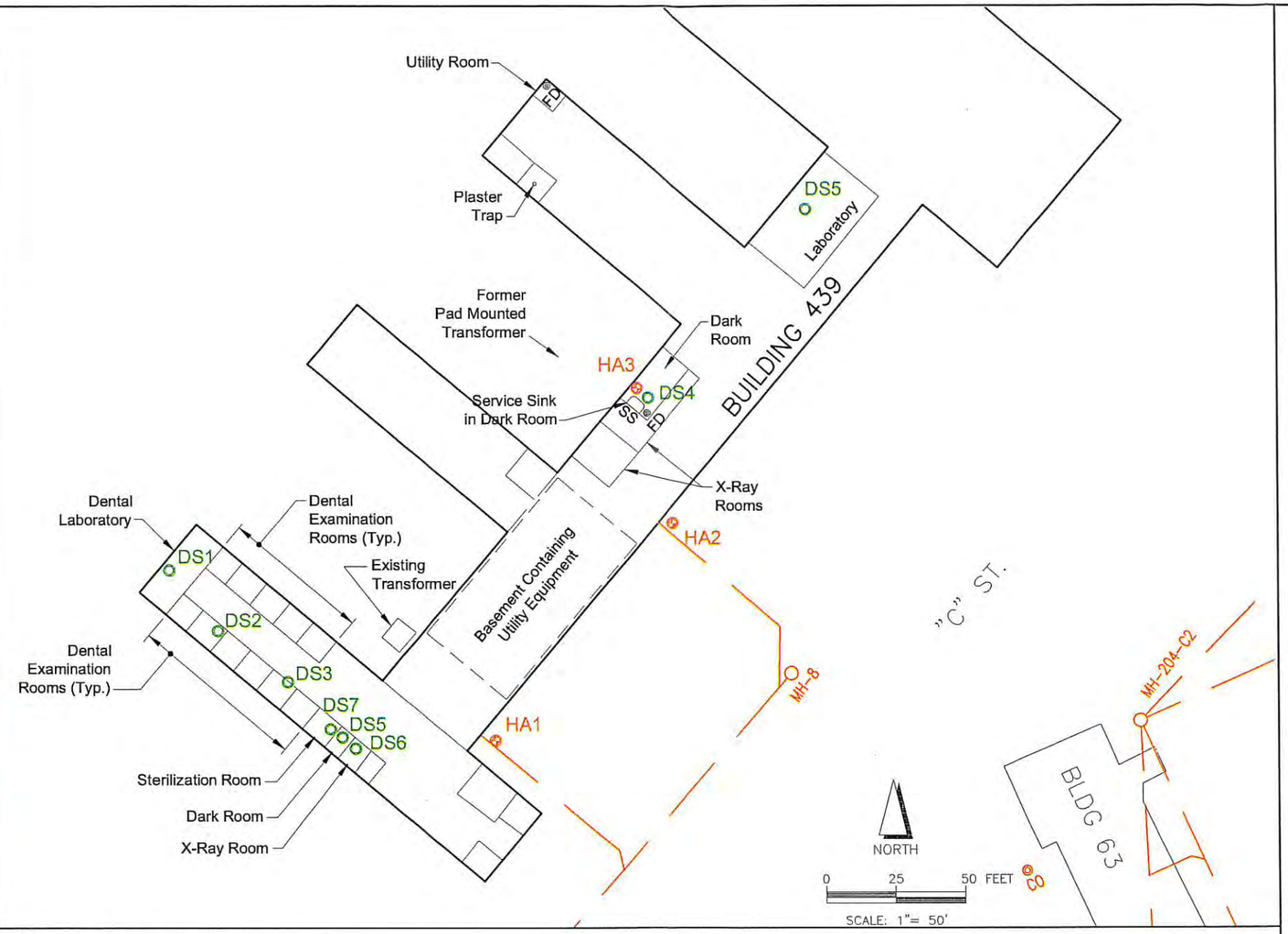
NA = Not Analyzed
J = The concentration is an estimate
NA = The sample was not analyzed for the specified analyte.

PRL 439

Dark Room with Floor Drain: Location of Soil Sample Boreholes HA4 and HA5. (Facing Northeast)

Dental Examination Room D113 Facing Northwest. Drain Sample DS2 Collected From Sink P-trap

Service Sink in Dark Room. Location of Soil Sample Borehole HA3 and Drain Sample DS4 from Sink P-Trap.



LEGEND:

- DS2 — Drain Sample
- Edge of Road
- FD — Floor Drain
- HA3 — Hand Auger Soil Sample Location
- Sewer Line
- CO — Sewer Line Clean Out
- MH — Sewer Line Manhole
- SS — Service Sink

Background:
The building was identified as a station hospital (1958), a dispensary and dental clinic (1973), and a dental clinic in 1997.
Four locations of concern (LOCs) are associated with this site. AST 439 was removed; no further action (NFA) was recommended. PCB T067 was a transformer that was removed; NFA was recommended. UST 439A and UST 439B were removed. Both UST sites were closed by the Orange County Health Care Agency (OCHCA).

Sampling and Analysis Summary:
Soil samples were collected from four boreholes at the following depths below ground surface: HA1-4.5'; HA2-4.5'; HA3-1.0' and HA5-1.5' and 2.0' and analyzed for cyanide, metals, pH, VOCs, and SVOCs. Sludge and sediment samples were collected from seven sink drains (DS1-DS7) and analyzed for metals.

Analytical Results:
No analyte exceeded its residential preliminary remediation goal (PRG). Analytical results of the drain samples collected at locations DS1 through DS7 were compared to RCRA and California desginated hazardous waste criteria. Cadmium, chromium, lead, mercury, and silver exceeded the RCRA hazardous waste designation. Copper, lead, mercury, nickel, silver and zinc exceeded California hazardous waste designations.

Risk Screening:
The maximum concentration detected for each analyte from all samples collected at the site was used as the exposure point concentration and compared to EPA Region 9 PRGs to calculate the cumulative risk ratios. The results indicated no significant cancer risk; the noncancer risk tatio was calculated to be 1.43, exceeding the accepted threshold of 1 (see table for summary). The major contributions to the noncancer risk ratio were iron, aluminum, silver, and manganese. The concentration of silver is well below the PRG but an order of magnitude greater than the background concentration. Based on this, it appears to be a site-related release. The detected concentrations of Iron, aluminum, and manganese are in the same order of magnitude as background concentrations and are very likely indicative of background conditions.

Waste Characterization:
Drain contents at locations DS1,DS2, DS3, DS4, DS6 and DS7 have been characterized as RCRA and California-designated hazardous waste. The contents of the drain at location DS5 has been characterized as California-designated hazardous waste.

Conclusion:
Further evaluation is required in accordance with EPA and DTSC comments per letters dated April 11, 2003

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Building interior and exterior locations and details are approximate.

Risk Screening Results - Comparison to EPA Region 9 Residential PRGs and MCAS El Toro Background Values

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Cancer Risk Screening Value	Noncancer Risk Screening Value	Site-Wide Maximum Value	Site-Wide Maximum Location	Risk Ratio Cancer	Risk Ratio Noncancer
Volatile Organic Compounds (VOCs)								
Ethylbenzene	µg/kg	--	8.9E+03	1.9E+06	634	HA5@2.0'	0.07	<0.01
Methylene Chloride	µg/kg	--	9.1E+03	2.0E+06	3	HA1@4.5'	<0.01	<0.01
Toluene	µg/kg	--	--	6.6E+05	561	HA5@2.0'	--	<0.01
Total Xylenes	µg/kg	--	--	2.8E+05	2260	HA5@2.0'	--	<0.01
Semivolatile Organic Compounds (SVOCs)								
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	1.2E+06	7600	HA5@2.0'	0.219	<0.01
Butylbenzylphthalate	µg/kg	--	--	1.2E+07	62	HA3@1.0'	--	<0.01
Metals								
Aluminum	mg/kg	14800	--	7.6E+04	16100	HA3@1.0'	--	0.21
Cobalt	mg/kg	6.98	9.0E+02	1.4E+03	37.9	HA5@2.0'	0.04	0.03
Copper	mg/kg	6.41	--	3.1E+03	29.8	HA5@2.0'	--	<0.01
Iron	mg/kg	18400	--	2.4E+04	18400	HA3@1.0'	--	0.78
Manganese	mg/kg	291	--	1.8E+03	305	HA3@1.0'	--	0.17
Nickel	mg/kg	15.3	--	1.6E+03	10	HA5@2.0'	--	<0.01
Selenium	mg/kg	0.32	--	3.9E+02	0.59	HA1@4.5'	--	<0.01
Silver	mg/kg	0.539	--	3.9E+02	78.6	HA3@1.0'	--	0.20
				Cumulative Risk Ratio:			0.33	1.43

Notes: -- indicates the specified criteria does not exist. Bold indicates concentration above MCAS El Toro Background value or PRG value, w hichever is higher. Sample analytical results for the drain samples (both solid and liquid matrix) w ere used for w aste characterization only and are not considered to be part of the risk screening since the associated exposure pathw ays are not complete. Acordingly, the drain sample results for metals are not presented in this Risk screening table and are presented in the attached tables.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening PRL 439

Environmental Baseline Survey

Date: 08-03	Former MCAS El Toro	Figure 9
Project No. 54506	EARTH TECH — A tyco INTERNATIONAL LTD. COMPANY	

File: M:\Projects\54506_(CTO-104)\EBS\CAD\Phase1_Investigation\Transferrable_PRLs\Tech Sheets\Final\PRL439_F.dwg Time: Aug 18, 2003 - 9:29am

Table 9a. Analytical Results, PRL-439

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL439-HA1 4.5' bgs LJ154	PRL439-HA2 4.5' bgs LJ155	PRL439-HA3 1.0' bgs LJ185	PRL439-HA3 (dup) 1.0' bgs LJ186	PRL439-HA5 1.5' bgs LJ238	PRL439-HA5 2.0' bgs LJ239
Volatile Organic Compounds (VOCs)											
1,1,1,2-Tetrachloroethane	µg/kg	--	3.2E+03	3.2E+03	5.2E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,1,1-Trichloroethane	µg/kg	--	1.2E+06	--	2.0E+06	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,1,2,2-Tetrachloroethane	µg/kg	--	4.1E+02	4.1E+02	1.0E+06	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,1,2-Trichloroethane	µg/kg	--	7.3E+02	7.3E+02	3.6E+04	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,1,2-Trichlorotrifluoroethane	µg/kg	--	5.6E+06	--	2.1E+07	5.1 UJ	5.4 UJ	5 UJ	5.8 UJ	4.5 U	4.4 U
1,1-Dichloroethane	µg/kg	--	5.1E+05	--	5.1E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,1-Dichloroethene	µg/kg	--	1.2E+05	--	1.2E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,2-Dichloroethane	µg/kg	--	2.8E+02	2.8E+02	8.5E+03	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,2-Dichloropropane	µg/kg	--	3.4E+02	3.4E+02	6.0E+03	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	--	5.1 UJ	5.4 UJ	5 UJ	5.8 UJ	4.5 U	4.4 U
2-Butanone	µg/kg	--	7.3E+06	--	7.3E+06	100 U	110 U	100 UJ	120 U	90 U	87 U
2-Hexanone	µg/kg	--	--	--	--	51 UJ	54 UJ	50 U	58 U	45 UJ	44 UJ
4-Methyl-2-pentanone	µg/kg	--	7.9E+05	--	7.9E+05	51 UJ	54 UJ	50 U	58 U	45 UJ	44 UJ
Acetone	µg/kg	--	1.6E+06	--	1.6E+06	100 U	110 U	100 UJ	120 UJ	90 U	87 U
Benzene	µg/kg	--	6.0E+02	6.0E+02	7.1E+03	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Bromodichloromethane	µg/kg	--	8.2E+02	8.2E+02	2.2E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Bromoform	µg/kg	--	6.2E+04	6.2E+04	1.2E+06	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Bromomethane	µg/kg	--	3.9E+03	--	3.9E+03	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Carbon Disulfide	µg/kg	--	3.6E+05	--	3.6E+05	5.1 U	5.4 U	5 U	5.8 UJ	4.5 U	4.4 U
Carbon Tetrachloride	µg/kg	--	2.5E+02	2.5E+02	2.2E+03	5.1 UJ	5.4 UJ	5 UJ	5.8 UJ	4.5 UJ	4.4 UJ
Chlorobenzene	µg/kg	--	1.5E+05	--	1.5E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Chloroethane	µg/kg	--	3.0E+03	3.0E+03	5.0E+06	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Chloroform	µg/kg	--	9.4E+02	9.4E+02	3.6E+03	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Chloromethane	µg/kg	--	1.2E+03	1.2E+03	--	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
cis-1,2-Dichloroethene	µg/kg	--	4.3E+04	--	4.3E+04	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
cis-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Dibromochloromethane	µg/kg	--	1.1E+03	1.1E+03	3.8E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Dichlorodifluoromethane (Freon-12)	µg/kg	--	9.4E+04	--	9.4E+04	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	--	5.1 UJ	5.4 UJ	5 U	5.8 U	4.5 U	4.4 U
Ethyl tertiary butyl ether	µg/kg	--	--	--	--	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Ethylbenzene	µg/kg	--	8.9E+03	8.9E+03	1.9E+06	5.1 U	5.4 U	5 U	5.8 U	1 J	634 J
Methylene Chloride	µg/kg	--	9.1E+03	9.1E+03	2.0E+06	3 J	5.4 U	0.5 J	0.6 J	0.6 J	0.8 J
Methyl-tert butyl ether (MTBE)	µg/kg	--	1.7E+04	1.7E+04	5.8E+06	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Styrene	µg/kg	--	1.7E+06	--	4.4E+06	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Tertiary amyl methyl ether	µg/kg	--	--	--	--	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Tertiary Butyl Alcohol	µg/kg	--	--	--	--	21 UJ	22 UJ	20 UJ	23 UJ	18 UJ	17 UJ
Tetrachloroethene (PCE)	µg/kg	--	1.5E+03	1.5E+03	3.6E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Toluene	µg/kg	--	5.2E+05	--	6.6E+05	5.1 U	5.4 U	5 U	5.8 U	4 J	561 J
Total Xylenes	µg/kg	--	2.8E+05	--	2.8E+05	15 U	16 U	15 U	17 U	7 J	2260 J
Trans-1,2-Dichloroethene	µg/kg	--	7.0E+04	--	7.0E+04	5.1 UJ	5.4 UJ	5 U	5.8 U	4.5 U	4.4 U
Trans-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Trichloroethene (TCE)	µg/kg	--	5.3E+01	5.3E+01	1.6E+04	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Trichlorofluoromethane (Freon-11)	µg/kg	--	3.9E+05	--	3.9E+05	5.1 U	5.4 U	5 U	5.8 U	4.5 UJ	4.4 UJ
Vinyl Chloride	µg/kg	--	7.9E+01	7.9E+01	3.9E+04	5.1 U	5.4 U	5 U	5.8 U	4.5 U	4.4 U
Semivolatile Organic Compounds (SVOCs)											
1,2,4-Trichlorobenzene	µg/kg	--	6.5E+05	--	6.5E+05	550 U	11000 U	550 U	630 U	560 U	2200 U
1,2-Dichlorobenzene	µg/kg	--	3.7E+05	--	1.1E+06	550 U	11000 U	550 U	630 U	560 U	2200 U
1,3-Dichlorobenzene	µg/kg	--	1.6E+04	--	1.6E+04	550 U	11000 U	550 U	630 U	560 U	2200 U
1,4-Dichlorobenzene	µg/kg	--	3.5E+03	3.5E+03	4.8E+05	550 U	11000 U	550 U	630 U	560 U	2200 U
2,2'-Oxybis(1-chloropropane)	µg/kg	--	2.9E+03	2.9E+03	9.5E+05	550 U	11000 U	550 U	630 U	560 U	2200 U
2,4,5-Trichlorophenol	µg/kg	--	6.1E+06	--	6.1E+06	550 U	11000 U	550 U	630 U	560 U	2200 U

Table 9a. Analytical Results, PRL-439

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL439-HA1 4.5' bgs LJ154	PRL439-HA2 4.5' bgs LJ155	PRL439-HA3 1.0' bgs LJ185	PRL439-HA3 (dup) 1.0' bgs LJ186	PRL439-HA5 1.5' bgs LJ238	PRL439-HA5 2.0' bgs LJ239
SVOCs, Continued											
2,4,6-Trichlorophenol	µg/kg	--	6.1E+03	7.0E+03	6.1E+03	550 U	11000 U	550 U	630 U	560 U	2200 U
2,4-Dichlorophenol	µg/kg	--	1.8E+05	--	1.8E+05	550 U	11000 U	550 U	630 U	560 U	2200 U
2,4-Dimethylphenol	µg/kg	--	1.2E+06	--	1.2E+06	550 U	11000 U	550 U	630 U	560 U	2200 U
2,4-Dinitrophenol	µg/kg	--	1.2E+05	--	1.2E+05	2800 U	55000 U	2700 U	3100 U	2800 U	11000 U
2,4-Dinitrotoluene	µg/kg	--	1.2E+05	--	1.2E+05	550 U	11000 U	550 U	630 U	560 U	2200 U
2,6-Dinitrotoluene	µg/kg	--	6.1E+04	--	6.1E+04	550 U	11000 U	550 U	630 U	560 U	2200 U
2-Chloronaphthalene	µg/kg	--	4.9E+06	--	4.9E+06	550 U	11000 U	550 U	630 U	560 U	2200 U
2-Chlorophenol	µg/kg	--	6.3E+04	--	6.3E+04	550 U	11000 U	550 U	630 U	560 U	2200 U
2-Methylphenol	µg/kg	--	3.1E+06	--	3.1E+06	550 U	11000 U	550 U	630 U	560 U	2200 U
2-Nitroaniline	µg/kg	--	1.8E+03	--	1.8E+03	2800 U	55000 U	2700 U	3100 U	2800 U	11000 U
2-Nitrophenol	µg/kg	--	--	--	--	550 U	11000 U	550 U	630 U	560 U	2200 U
3,3'-Dichlorobenzidine	µg/kg	--	1.1E+03	1.1E+03	--	1100 U	22000 U	1100 U	1300 U	1100 U	4500 U
3/4-methylphenol	µg/kg	--	3.1E+05	--	3.1E+05	550 U	11000 U	550 U	630 U	2800 U	11000 U
3-Nitroaniline	µg/kg	--	--	--	--	2800 U	55000 U	2700 U	3100 U	2800 U	11000 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	2800 U	55000 U	2700 U	3100 U	560 U	2200 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	--	550 UJ	11000 UJ	550 UJ	630 UJ	560 U	2200 U
4-Chloro-3-Methylphenol	µg/kg	--	--	--	--	550 U	11000 U	550 U	630 U	1100 U	4500 U
4-Chloroaniline	µg/kg	--	2.4E+05	--	2.4E+05	1100 U	22000 U	1100 U	1300 U	560 U	2200 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	--	550 U	11000 U	550 U	630 U	560 U	2200 U
4-Nitroaniline	µg/kg	--	--	--	--	2800 U	55000 U	2700 U	3100 U	2800 U	11000 U
4-Nitrophenol	µg/kg	--	--	--	--	2800 UJ	55000 UJ	2700 UJ	3100 UJ	2800 U	11000 U
bis(2-chlorethoxy)methane	µg/kg	--	--	--	--	550 U	11000 U	550 U	630 U	560 U	2200 U
bis(2-chloroethyl)ether	µg/kg	--	2.1E+02	2.1E+02	--	550 U	11000 U	550 U	630 U	560 U	2200 U
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	3.5E+04	1.2E+06	550 U	11000 U	550 U	630 U	1110	7600
Butylbenzylphthalate	µg/kg	--	1.2E+07	--	1.2E+07	550 U	11000 U	550 U	62 J	560 U	2200 U
Carbazole	µg/kg	--	2.4E+04	2.4E+04	--	550 U	11000 U	550 U	630 U	560 U	2200 U
Dibenzofuran	µg/kg	--	2.9E+05	--	2.9E+05	550 U	11000 U	550 U	630 U	560 U	2200 U
Diethylphthalate	µg/kg	--	4.9E+07	--	4.9E+07	550 U	11000 U	550 U	630 U	560 U	2200 U
Dimethylphthalate	µg/kg	--	1.0E+08	--	6.1E+08	550 U	11000 U	550 U	630 U	560 U	2200 U
Di-n-butylphthalate	µg/kg	--	--	--	--	550 U	11000 U	550 U	630 U	560 U	2200 U
Di-n-octylphthalate	µg/kg	--	2.4E+06	--	2.4E+06	550 U	11000 UJ	550 U	630 U	560 U	2200 U
Hexachlorobenzene	µg/kg	--	3.0E+02	3.0E+02	4.9E+04	550 U	11000 U	550 U	630 U	560 U	2200 U
Hexachlorobutadiene	µg/kg	--	6.2E+03	6.2E+03	1.8E+04	550 U	11000 U	550 U	630 U	560 U	2200 U
Hexachlorocyclopentadiene	µg/kg	--	3.7E+05	--	3.7E+05	2800 U	55000 U	2700 U	3100 U	2800 U	11000 U
Hexachloroethane	µg/kg	--	3.5E+04	3.5E+04	6.1E+04	550 U	11000 U	550 U	630 U	560 U	2200 U
Isophorone	µg/kg	--	5.1E+05	5.1E+05	1.2E+07	550 U	11000 U	550 U	630 U	560 U	2200 U
Nitrobenzene	µg/kg	--	2.0E+04	--	2.0E+04	550 U	11000 U	550 U	630 U	560 U	2200 U
n-Nitrosodi-n-propylamine	µg/kg	--	7.0E+01	7.0E+01	--	550 U	11000 U	550 U	630 U	560 U	2200 U
n-Nitroso-diphenylamine	µg/kg	--	9.9E+04	9.9E+04	--	2800 U	55000 U	2700 U	3100 U	2800 U	11000 U
Pentachlorophenol	µg/kg	--	3.0E+03	3.0E+03	1.4E+06	1900 U	37000 U	1900 U	2100 U	1900 U	7600 U
Phenol	µg/kg	--	3.7E+07	--	3.7E+07	550 U	11000 U	550 U	630 U	560 U	2200 U
Metals											
Aluminum	mg/kg	14800	7.6E+04	--	7.6E+04	15900	11000	7420	16100	12400	9560
Antimony	mg/kg	3.06	3.1E+01	--	3.1E+01	13 U	13 U	13 U	15 U	13 U	13 U
Arsenic	mg/kg	6.86	3.9E-01	3.9E-01	2.2E+01	4	3.9	2.1 UJ	3.2 UJ	4.4 UJ	3.8 UJ
Barium	mg/kg	173	5.4E+03	--	5.4E+03	164	113	68.7	163	147	109
Berillium	mg/kg	0.669	1.5E+02	1.1E+03	1.5E+02	0.89 U	0.88 U	0.88 U	1 U	0.90 U	0.89 U
Cadmium	mg/kg	2.35	1.7E+00	1.7E+00	1.7E+00	0.7	0.39 UJ	0.14 UJ	0.44	0.69 UJ	0.36 UJ
Calcium	mg/kg	46000	--	--	--	11600	5710	9270	6550	7880	6720
Chromium	mg/kg	26.9	2.1E+02	2.1E+02	--	13.9	12.4	11.2	14.5	12.5	9.2
Cobalt	mg/kg	6.98	9.0E+02	9.0E+02	1.4E+03	6.3	5.5	8.9	9.6	7.0	37.9

Table 9a. Analytical Results, PRL-439

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Metals, Continued											
Copper	mg/kg	6.41	3.1E+03	--	3.1E+03	8	9.2	7.9	8.2	8.6	29.8
Iron	mg/kg	18400	2.4E+04	--	2.4E+04	16400	14900	12700	18400	15800	12900
Lead	mg/kg	15.1	1.5E+02	--	--	3.1	8.3	7.7	4.2	3.9	4.8
Magnesium	mg/kg	8370	--	--	--	8150	5100	3940	7270	6870	5040
Manganese	mg/kg	291	1.8E+03	--	1.8E+03	233	207	160	305	247	192
Mercury	mg/kg	0.22	2.4E+01	--	2.4E+01	0.22 U	0.22 U	0.044	0.11	0.0065 J	0.0077 J
Nickel	mg/kg	15.3	1.6E+03	--	1.6E+03	9.2	9.5	6.5	9.3	9.3	10
Potassium	mg/kg	4890	--	--	--	3480 J	2520 J	1820	3750	3570	2790
Selenium	mg/kg	0.32	3.9E+02	--	3.9E+02	0.59	0.57	1.3 U	1.5 U	1.3 U	1.3 U
Silver	mg/kg	0.539	3.9E+02	--	3.9E+02	2.2 U	2.2 U	78.6	4.3	2.2 U	0.78 UJ
Sodium	mg/kg	405	--	--	--	61.2 UJ	440 UJ	36.8 UJ	500 U	173 J	365
Thallium	mg/kg	0.42	5.2E+00	--	5.2E+00	1.8 U	1.8 U	1.8 U	2 U	1.8 U	1.8 U
Vanadium	mg/kg	71.8	5.5E+02	--	5.5E+02	39.6	31.9	22.4	40.2	37.6	28.2
Zinc	mg/kg	77.9	2.4E+04	--	2.4E+04	47.9	53.6	47.5	55.1	45.2	43.8
Total Cyanide											
Cyanide (Total)	mg/kg	--	1.1E+01	--	1.1E+01	2.8 U	2.7 U	2.7 U	3.1 U	2.8 U	2.8 U
pH											
pH	pH Units	--	--	--	--	8.26	7.16	7.78	8.15	8.57	9.39

Notes:

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

J = The concentration is an estimate

Table 9b. Analytical Results and Preliminary Waste Characterization, Sink Drain Samples (Solid Matrix), PRL-439

Analyte	MCAS El Toro Background Value (95th quantile)	RCRA Hazwaste		Cal-Hazwaste			PRL-439-DS4 Sink Drain LJ209 (mg/kg)	PRL-439-DS6 Sink Drain LJ236 (mg/kg)	PRL-439-DS3 Sink Drain LJ243 (mg/kg)
		TCLP's RL (mg/L)	20 x TCLP RL (mg/kg)	TTLC (mg/kg)	STLC (mg/L)	10 x STLC (mg/kg)			
Metals									
Aluminum	14800	--	--	--	--	--	3720	2240	274
Antimony	3.06	--	--	500	15	150	15.3	3.1 UJ	12 U
Arsenic	6.86	5.0	100.0	500	5.0	50	13.1	13.2	29.3
Barium	173	100.0	2000.0	10,000	100	1000	101	72.7	65.0
Berillium	0.669	--	--	75	0.75	7.5	0.8 U	0.35 UJ	0.8 U
Cadmium	2.35	1.0	20.0	100	1.0	10.0	***21.3***	4.7	***34.4***
Calcium	46000	--	--	--	--	--	2810	7390	6890
Chromium	26.9	5.0	100.0	2,500	5	50	***181***	***3130***	***927***
Cobalt	6.98	--	--	8,000	80	800	16.4	19.5	*1700*
Copper	6.41	--	--	2,500	25	250	*29400*	*16600*	*62400*
Iron	18400	--	--	--	--	--	179000	28300	114000
Lead	15.1	5.0	100.0	1,000	5	50.0	**2150**	***3190***	47.8
Magnesium	8370	--	--	--	--	--	715	705	113
Manganese	291	--	--	--	--	--	276	69.6	950
Mercury	0.22	0.2	4.0	20	0.2	2.0	***30.6***	***29100***	***53400 J***
Nickel	15.3	--	--	2,000	20	200	*264*	*9510*	*2850*
Potassium	4890	--	--	--	--	--	310	203	81.3 UJ
Selenium	0.32	1.0	20.0	100	1.0	10.0	1.2 U	1.5 U	14.6
Silver	0.539	5.0	100.0	500	5	50	***134***	***518***	***127***
Sodium	405	--	--	--	--	--	953	1870	400 U
Thallium	0.42	--	--	700	7.0	70.0	1.6 U	5.2	1.6 U
Vanadium	71.8	--	--	2,400	24	240	5	6.7	581
Zinc	77.9	--	--	5,000	250	2,500	*40500*	*11600*	*16300*

Notes:

mg/L = miligrams per liter

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

J = The concentration is an estimate

RL = Regulatory Limit

RCRA = Resource Conservation and Recovery Act

TTLC = total threshold limit concentration

TCLP = toxicity characteristic leaching procedure

STLC = soluble threshold limit concentrations

Bold indicates values (mg/kg) exceeding 20 x TCLP (RL) value, meaning the analyte would likely fail the TCLP test and therefore the waste may be classified as a RCRA Hazardous Waste, else the Generator must perform a TCLP test to demonstrate that it IS NOT a RCRA Hazardous Waste.

Highlight indicates values (mg/kg) exceeding TTLC value, meaning the analyte is characterized as California-Regulated Hazardous Waste.

Italics indicates value exceeding 10 x STLC value, meaning the analyte would likely fail the WET test and therefore the waste may be classified as a California-Regulated Hazardous Waste, else the Generator must perform a WET test to demonstrate that it IS NOT a Cal-Regulated Hazardous Waste.

Table 9c. Analytical Results and Preliminary Waste Characterization, Sink Drain Samples (Liquid Matrix), PRL-439

Analyte	TCLP's RL (µg/L)	STLC (µg/L)	PRL-439-DS1 Sink Drain LJ208 (µg/L)	PRL-439-DS7 Sink Drain LJ237 (µg/L)	PRL-439-DS2 Sink Drain LJ241 (µg/L)	PRL-439-DS5 Sink Drain LJ242 (µg/L)
Metals						
Aluminum	--	--	1480	833	9610	1060
Antimony	--	15000	10 U	50 U	10 U	26.5
Arsenic	5000	5000	6.2 UJ	74.6	101	12.1
Barium	100000	100000	710	201	2450	59.4
Berillium	--	750	1.4	10 U	50.1	2 U
Cadmium	1000	1000	2 U	266	44.5	13.6
Calcium	--	--	97900	5980	215000	12700
Chromium	5000	5000	39.8	643	578	24.3
Cobalt	--	80000	25.6	5070	162	33.1
Copper	--	25000	6920	*168000*	*89500*	4650
Iron	--	--	4230	2260000	33500	25000
Lead	5000	5000	188	398	***6980***	823
Magnesium	--	--	26800	500 U	66000	3510
Manganese	--	--	41.2	12100	296	293
Mercury	200	200	***7600***	***494***	***177000 J***	4.1 J
Nickel	--	20000	*56500*	*54800*	3520	5800
Potassium	--	--	17600	2400 UJ	22200	741 UJ
Selenium	1000	1000	10 U	108	31.4	10 U
Silver	5000	5000	***6410***	40	1610	926
Sodium	--	--	189000	74900	219000	11500
Thallium	--	7000	13.3 UJ	50 U	48.5	11.9 UJ
Vanadium	--	24000	4.7	249	22.8	24.6
Zinc	--	250000	28700	207000	*438000*	*288000*

Notes:

µg/L = micrograms per liter

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

RL = Regulatory Limit

RCRA = Resource Conservation and Recovery Act

TCLP = toxicity characteristic leaching procedure

STLC = soluble threshold limit concentrations

Bold indicates values exceeding TCLP (RL) value.

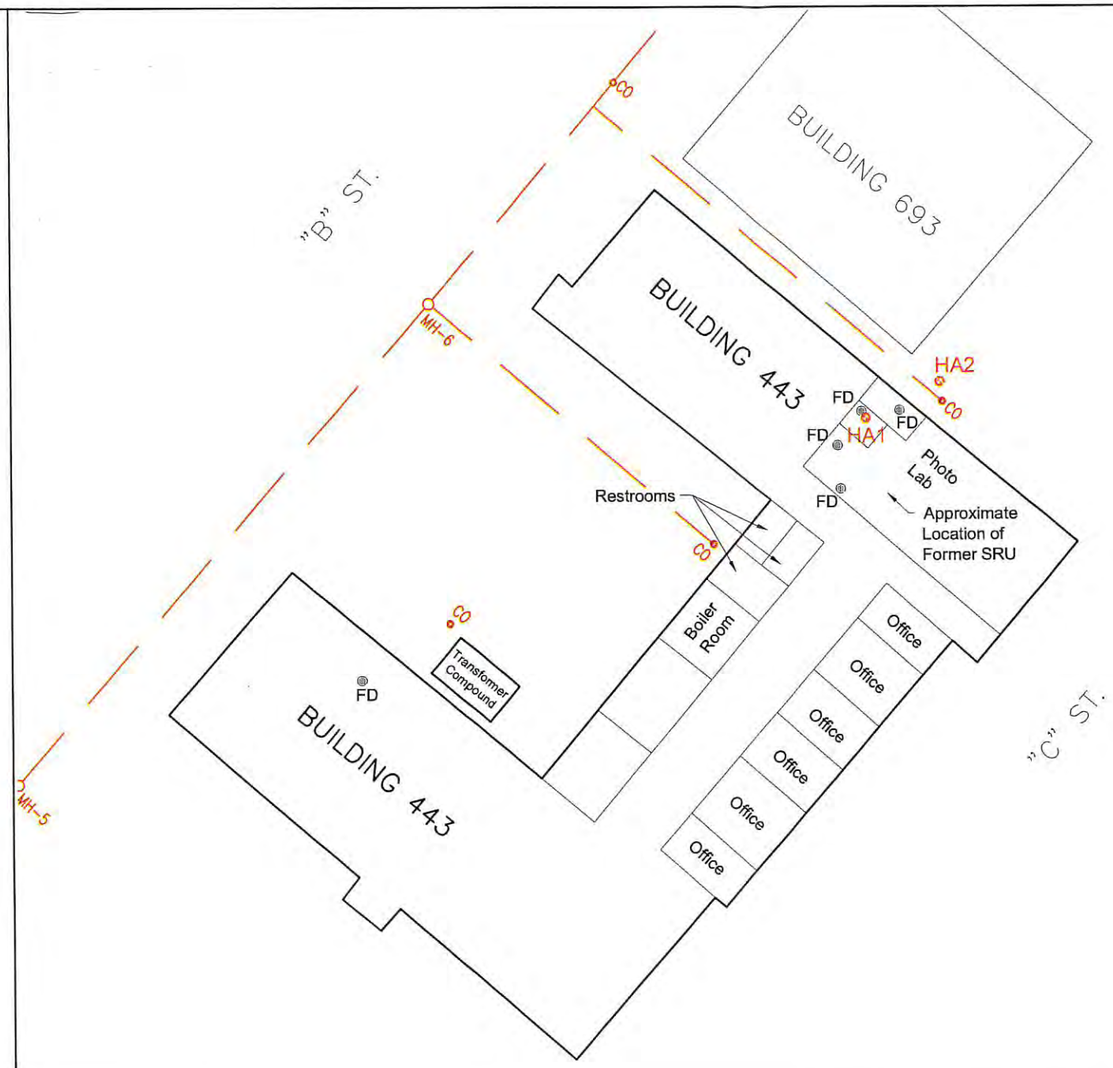
Italics idicates values exceeding STLC value.

If any analyte is above the TCLP screening value, then the waste is characterized as a RCRA Hazardous Waste.

If any analyte is above the STLC value, then the waste is characterized as a California-Regulated Hazardous Waste

PRL 443

Exterior View of Building 443
(Facing Northwest)



LEGEND:

- Edge of Road
- FD — Floor Drain
- HA2 — Hand Auger Soil Sample Location
- Sewer Line
- CO — Sewer Line Clean Out
- MH — Sewer Line Manhole
- SRU — Silver Recovery Unit

Background:
The building was identified as an applied and academic instruction building (1973), and a photographic lab in 1997. One location of concern (LOC) is associated with this site. UST 443 was removed, and the site was closed by the California Regional Water Quality Control Board (RWQCB), Santa Ana Region.

Sampling and Analysis Summary:
Two soil samples were collected from boreholes HA1 and HA2 (at depths of 1.0' below ground surface) and analyzed for VOCs, SVOCs, cyanide, pH, and metals.

Analytical Results:
The only analyte exceeding its residential preliminary remediation goal was arsenic (9.3mg/kg), detected in the soil sample from borehole HA1.

Risk Screening:
The maximum concentration detected for each analyte from all samples collected at the site was used as the exposure point concentration and compared to EPA Region 9 PRGs to calculate the cumulative risk ratios. The results indicated a cancer risk ratio of 24 and a noncancer risk ratio of 1.9, exceeding the accepted threshold of 1 (see table for summary). Arsenic is the only significant contributor to the cancer risk; iron, arsenic, aluminum, and manganese contributed to the noncancer risk. The detected concentrations of these metals are of the same order of magnitude as background concentrations. Based on this, it is very likely the evidenced metals concentrations are indicative of background conditions.

Conclusion:
No further action was recommended and concurred with by EPA and DTSC per letters dated April 11 and 24, 2003.

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Building interior and exterior locations and details are approximate.

Risk Screening Results - Comparison to EPA Region 9 Residential PRGs and MCAS El Toro Background Values

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Cancer Risk Screening Value	Noncancer Risk Screening Value	Site-Wide Maximum Value	Site-Wide Maximum Location	Risk Ratio Cancer	Risk Ratio Noncancer
Volatile Organic Compounds (VOCs)								
Acetone	µg/kg	--	--	1.6E+06	23	HA1@1.0'	--	<0.01
Methylene Chloride	µg/kg	--	9.1E+03	2.0E+06	2	HA1@1.0'	<0.01	<0.01
Metals								
Aluminum	mg/kg	14800	--	7.6E+04	20100	HA1@1.0'	--	0.26
Arsenic	mg/kg	6.86	3.9E-01	2.2E+01	**9.3**	HA1@1.0'	23.85	0.43
Cobalt	mg/kg	6.98	9.0E+02	1.4E+03	8.6	HA1@1.0'	<0.01	<0.01
Copper	mg/kg	6.41	--	3.1E+03	10	HA1@1.0'	--	<0.01
Iron	mg/kg	18400	--	2.0E+04	21200	HA1@1.0'	--	1.06
Manganese	mg/kg	291	--	1.8E+03	299	HA1@1.0'	--	0.17
				Cumulative Risk Ratio:			23.86	1.93

Notes: -- indicates the specified criteria does not exist. Bold indicates concentration above MCAS El Toro Background value or PRG value, whichever is higher.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening PRL 443

Environmental Baseline Survey

Date: 08-03	Former MCAS El Toro	Figure 10
Project No. 54506	EARTH TECH — A tyco INTERNATIONAL LTD. COMPANY	

File: M:\Projects\54506_(CTO-104)\EBS\CAD\Phase1_Investigation\Transferrable_PRLs\Tech Sheets\Final\PRL443_F.dwg Time: Aug 18, 2003 - 9:30am

Table 10. Analytical Results, PRL-443

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL443-HA2 1.0' bgs LJ183	PRL443-HA2 (dup) 1.0' bgs LJ184	PRL443-HA1 1.0' bgs LJ187
Volatile Organic Compounds (VOCs)								
1,1,1,2-Tetrachloroethane	µg/kg	--	3.2E+03	3.2E+03	5.2E+05	5.7 U	5.1 U	5.3 U
1,1,1-Trichloroethane	µg/kg	--	1.2E+06	--	2.0E+06	5.7 U	5.1 U	5.3 U
1,1,2,2-Tetrachloroethane	µg/kg	--	4.1E+02	4.1E+02	1.0E+06	5.7 U	5.1 U	5.3 U
1,1,2-Trichloroethane	µg/kg	--	7.3E+02	7.3E+02	3.6E+04	5.7 U	5.1 U	5.3 U
1,1,2-Trichlorotrifluoroethane	µg/kg	--	5.6E+06	--	2.1E+07	5.7 UJ	5.1 UJ	5.3 UJ
1,1-Dichloroethane	µg/kg	--	5.1E+05	--	5.1E+05	5.7 U	5.1 U	5.3 U
1,1-Dichloroethene	µg/kg	--	1.2E+05	--	1.2E+05	5.7 U	5.1 U	5.3 U
1,2-Dichloroethane	µg/kg	--	2.8E+02	2.8E+02	8.5E+03	5.7 U	5.1 U	5.3 U
1,2-Dichloropropane	µg/kg	--	3.4E+02	3.4E+02	6.0E+03	5.7 U	5.1 U	5.3 U
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	--	5.7 UJ	5.1 UJ	5.3 UJ
2-Butanone	µg/kg	--	7.3E+06	--	7.3E+06	110 UJ	100 UJ	110 UJ
2-Hexanone	µg/kg	--	--	--	--	57 U	51 U	53 U
4-Methyl-2-pentanone	µg/kg	--	7.9E+05	--	7.9E+05	57 U	51 U	53 U
Acetone	µg/kg	--	1.6E+06	--	1.6E+06	110 UJ	100 UJ	23 J
Benzene	µg/kg	--	6.0E+02	6.0E+02	7.1E+03	5.7 U	5.1 U	5.3 U
Bromodichloromethane	µg/kg	--	8.2E+02	8.2E+02	2.2E+05	5.7 U	5.1 U	5.3 U
Bromoform	µg/kg	--	6.2E+04	6.2E+04	1.2E+06	5.7 U	5.1 U	5.3 U
Bromomethane	µg/kg	--	3.9E+03	--	3.9E+03	5.7 U	5.1 U	5.3 U
Carbon Disulfide	µg/kg	--	3.6E+05	--	3.6E+05	5.7 U	5.1 U	5.3 U
Carbon Tetrachloride	µg/kg	--	2.5E+02	2.5E+02	2.2E+03	5.7 UJ	5.1 UJ	5.3 UJ
Chlorobenzene	µg/kg	--	1.5E+05	--	1.5E+05	5.7 U	5.1 U	5.3 U
Chloroethane	µg/kg	--	3.0E+03	3.0E+03	5.0E+06	5.7 U	5.1 U	5.3 U
Chloroform	µg/kg	--	9.4E+02	9.4E+02	3.6E+03	5.7 U	5.1 U	5.3 U
Chloromethane	µg/kg	--	1.2E+03	1.2E+03	--	5.7 U	5.1 U	5.3 U
cis-1,2-Dichloroethene	µg/kg	--	4.3E+04	--	4.3E+04	5.7 U	5.1 U	5.3 U
cis-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.7 U	5.1 U	5.3 U
Dibromochloromethane	µg/kg	--	1.1E+03	1.1E+03	3.8E+05	5.7 U	5.1 U	5.3 U
Dichlorodifluoromethane (Freon-12)	µg/kg	--	9.4E+04	--	9.4E+04	5.7 U	5.1 U	5.3 U
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	--	5.7 U	5.1 U	5.3 U
Ethyl tertiary butyl ether	µg/kg	--	--	--	--	5.7 U	5.1 U	5.3 U
Ethylbenzene	µg/kg	--	8.9E+03	8.9E+03	1.9E+06	5.7 U	5.1 U	5.3 U
Methylene Chloride	µg/kg	--	9.1E+03	9.1E+03	2.0E+06	0.8 J	5.1 U	2 J
Methyl-tert butyl ether (MTBE)	µg/kg	--	1.7E+04	1.7E+04	5.8E+06	5.7 U	5.1 U	5.3 U
Styrene	µg/kg	--	1.7E+06	--	4.4E+06	5.7 U	5.1 U	5.3 U
Tertiary amyl methyl ether	µg/kg	--	--	--	--	5.7 U	5.1 U	5.3 U
Tertiary Butyl Alcohol	µg/kg	--	--	--	--	23 UJ	20 UJ	21 UJ
Tetrachloroethene (PCE)	µg/kg	--	1.5E+03	1.5E+03	3.6E+05	5.7 U	5.1 U	5.3 U
Toluene	µg/kg	--	5.2E+05	--	6.6E+05	5.7 U	5.1 U	5.3 U
Total Xylenes	µg/kg	--	2.8E+05	--	2.8E+05	17 U	15 U	16 U
Trans-1,2-Dichloroethene	µg/kg	--	7.0E+04	--	7.0E+04	5.7 U	5.1 U	5.3 U
Trans-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.7 U	5.1 U	5.3 U
Trichloroethene (TCE)	µg/kg	--	5.3E+01	5.3E+01	1.6E+04	5.7 U	5.1 U	5.3 U
Trichlorofluoromethane (Freon-11)	µg/kg	--	3.9E+05	--	3.9E+05	5.7 U	5.1 U	5.3 U
Vinyl Chloride	µg/kg	--	7.9E+01	7.9E+01	3.9E+04	5.7 U	5.1 U	5.3 U
Semivolatile Organic Compounds (SVOCs)								
1,2,4-Trichlorobenzene	µg/kg	--	6.5E+05	--	6.5E+05	610 U	610 U	600 U
1,2-Dichlorobenzene	µg/kg	--	3.7E+05	--	1.1E+06	610 U	610 U	600 U
1,3-Dichlorobenzene	µg/kg	--	1.6E+04	--	1.6E+04	610 U	610 U	600 U
1,4-Dichlorobenzene	µg/kg	--	3.5E+03	3.5E+03	4.8E+05	610 U	610 U	600 U
2,2'-Oxybis(1-chloropropane)	µg/kg	--	2.9E+03	2.9E+03	9.5E+05	610 U	610 U	600 U
2,4,5-Trichlorophenol	µg/kg	--	6.1E+06	--	6.1E+06	610 U	610 U	600 U

Table 10. Analytical Results, PRL-443

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL443-HA2 1.0' bgs LJ183	PRL443-HA2 (dup) 1.0' bgs LJ184	PRL443-HA1 1.0' bgs LJ187
SVOCs, Continued								
2,4,6-Trichlorophenol	µg/kg	--	6.1E+03	7.0E+03	6.1E+03	610 U	610 U	600 U
2,4-Dichlorophenol	µg/kg	--	1.8E+05	--	1.8E+05	610 U	610 U	600 U
2,4-Dimethylphenol	µg/kg	--	1.2E+06	--	1.2E+06	610 U	610 U	600 U
2,4-Dinitrophenol	µg/kg	--	1.2E+05	--	1.2E+05	3100 U	3000 U	3000 U
2,4-Dinitrotoluene	µg/kg	--	1.2E+05	--	1.2E+05	610 U	610 U	600 U
2,6-Dinitrotoluene	µg/kg	--	6.1E+04	--	6.1E+04	610 U	610 U	600 U
2-Chloronaphthalene	µg/kg	--	4.9E+06	--	4.9E+06	610 U	610 U	600 U
2-Chlorophenol	µg/kg	--	6.3E+04	--	6.3E+04	610 U	610 U	600 U
2-Methylphenol	µg/kg	--	3.1E+06	--	3.1E+06	610 U	610 U	600 U
2-Nitroaniline	µg/kg	--	1.8E+03	--	1.8E+03	3100 U	3000 U	3000 U
2-Nitrophenol	µg/kg	--	--	--	--	610 U	610 U	600 U
3,3'-Dichlorobenzidine	µg/kg	--	1.1E+03	1.1E+03	--	1200 U	1200 U	1200 U
3/4-methylphenol	µg/kg	--	3.1E+05	--	3.1E+05	610 U	610 U	600 U
3-Nitroaniline	µg/kg	--	--	--	--	3100 U	3000 U	3000 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	3100 U	3000 U	3000 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	--	610 UJ	610 UJ	600 UJ
4-Chloro-3-Methylphenol	µg/kg	--	--	--	--	610 U	610 U	600 U
4-Chloroaniline	µg/kg	--	2.4E+05	--	2.4E+05	1200 U	1200 U	1200 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	--	610 U	610 U	600 U
4-Nitroaniline	µg/kg	--	--	--	--	3100 U	3000 U	3000 U
4-Nitrophenol	µg/kg	--	--	--	--	3100 UJ	3000 UJ	3000 UJ
bis(2-chlorethoxy)methane	µg/kg	--	--	--	--	610 U	610 U	600 U
bis(2-chloroethyl)ether	µg/kg	--	2.1E+02	2.1E+02	--	610 U	610 U	600 U
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	3.5E+04	1.2E+06	610 U	610 U	600 U
Butylbenzylphthalate	µg/kg	--	1.2E+07	--	1.2E+07	610 U	610 U	600 U
Carbazole	µg/kg	--	2.4E+04	2.4E+04	--	610 U	610 U	600 U
Dibenzofuran	µg/kg	--	2.9E+05	--	2.9E+05	610 U	610 U	600 U
Diethylphthalate	µg/kg	--	4.9E+07	--	4.9E+07	610 U	610 U	600 U
Dimethylphthalate	µg/kg	--	1.0E+08	--	6.1E+08	610 U	610 U	600 U
Di-n-butylphthalate	µg/kg	--	--	--	--	610 U	610 U	600 U
Di-n-octylphthalate	µg/kg	--	2.4E+06	--	2.4E+06	610 U	610 U	600 U
Hexachlorobenzene	µg/kg	--	3.0E+02	3.0E+02	4.9E+04	610 U	610 U	600 U
Hexachlorobutadiene	µg/kg	--	6.2E+03	6.2E+03	1.8E+04	610 U	610 U	600 U
Hexachlorocyclopentadiene	µg/kg	--	3.7E+05	--	3.7E+05	3100 U	3000 U	3000 U
Hexachloroethane	µg/kg	--	3.5E+04	3.5E+04	6.1E+04	610 U	610 U	600 U
Isophorone	µg/kg	--	5.1E+05	5.1E+05	1.2E+07	610 U	610 U	600 U
Nitrobenzene	µg/kg	--	2.0E+04	--	2.0E+04	610 U	610 U	600 U
n-Nitrosodi-n-propylamine	µg/kg	--	7.0E+01	7.0E+01	--	610 U	610 U	600 U
n-Nitroso-diphenylamine	µg/kg	--	9.9E+04	9.9E+04	--	3100 U	3000 U	3000 U
Pentachlorophenol	µg/kg	--	3.0E+03	3.0E+03	1.4E+06	2100 U	2100 U	2000 U
Phenol	µg/kg	--	3.7E+07	--	3.7E+07	610 U	610 U	600 U
Metals								
Aluminum	mg/kg	14800	7.6E+04	--	7.6E+04	6940	9970	20100
Antimony	mg/kg	3.06	3.1E+01	--	3.1E+01	15 U	15 U	14 U
Arsenic	mg/kg	6.86	3.9E-01	3.9E-01	2.2E+01	1.8 UJ	2.1 UJ	9.3
Barium	mg/kg	173	5.4E+03	--	5.4E+03	107	119	142
Berillium	mg/kg	0.669	1.5E+02	1.1E+03	1.5E+02	0.98 U	0.97 U	0.96 U
Cadmium	mg/kg	2.35	1.7E+00	1.7E+00	1.7E+00	0.13 UJ	0.22 UJ	0.67
Calcium	mg/kg	46000	--	--	--	6300	7090	6500
Chromium	mg/kg	26.9	2.1E+02	2.1E+02	--	6.7	9.3	17.1
Cobalt	mg/kg	6.98	9.0E+02	9.0E+02	1.4E+03	4.1	5.4	8.6

Table 10. Analytical Results, PRL-443

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL443-HA2 1.0' bgs LJ183	PRL443-HA2 (dup) 1.0' bgs LJ184	PRL443-HA1 1.0' bgs LJ187
Metals, Continued								
Copper	mg/kg	6.41	3.1E+03	--	3.1E+03	3.1	3.6	10
Iron	mg/kg	18400	2.4E+04	--	2.4E+04	9930	12400	21200
Lead	mg/kg	15.1	1.5E+02	--	--	1.6	1.8	4
Magnesium	mg/kg	8370	--	--	--	3790	4800	8820
Manganese	mg/kg	291	1.8E+03	--	1.8E+03	172	207	299
Mercury	mg/kg	0.22	2.4E+01	--	2.4E+01	0.02	0.018	0.025
Nickel	mg/kg	15.3	1.6E+03	--	1.6E+03	4.3	5.9	11.4
Potassium	mg/kg	4890	--	--	--	1960	2450	4840
Selenium	mg/kg	0.32	3.9E+02	--	3.9E+02	1.5 U	1.5 U	1.4 U
Silver	mg/kg	0.539	3.9E+02	--	3.9E+02	2.4 U	2.4 U	2.4 U
Sodium	mg/kg	405	--	--	--	490 U	490 U	42.9 UJ
Thallium	mg/kg	0.42	5.2E+00	--	5.2E+00	2 U	1.9 U	1.9 U
Vanadium	mg/kg	71.8	5.5E+02	--	5.5E+02	23	28.4	49.4
Zinc	mg/kg	77.9	2.4E+04	--	2.4E+04	29.5	33.5	61.2
Total Cyanide								
Cyanide (Total)	mg/kg	--	1.1E+01	--	1.1E+01	3.1 U	3 U	3 U
pH								
pH	pH Units	--	--	--	--	8.52	8.81	8.32

Notes:

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

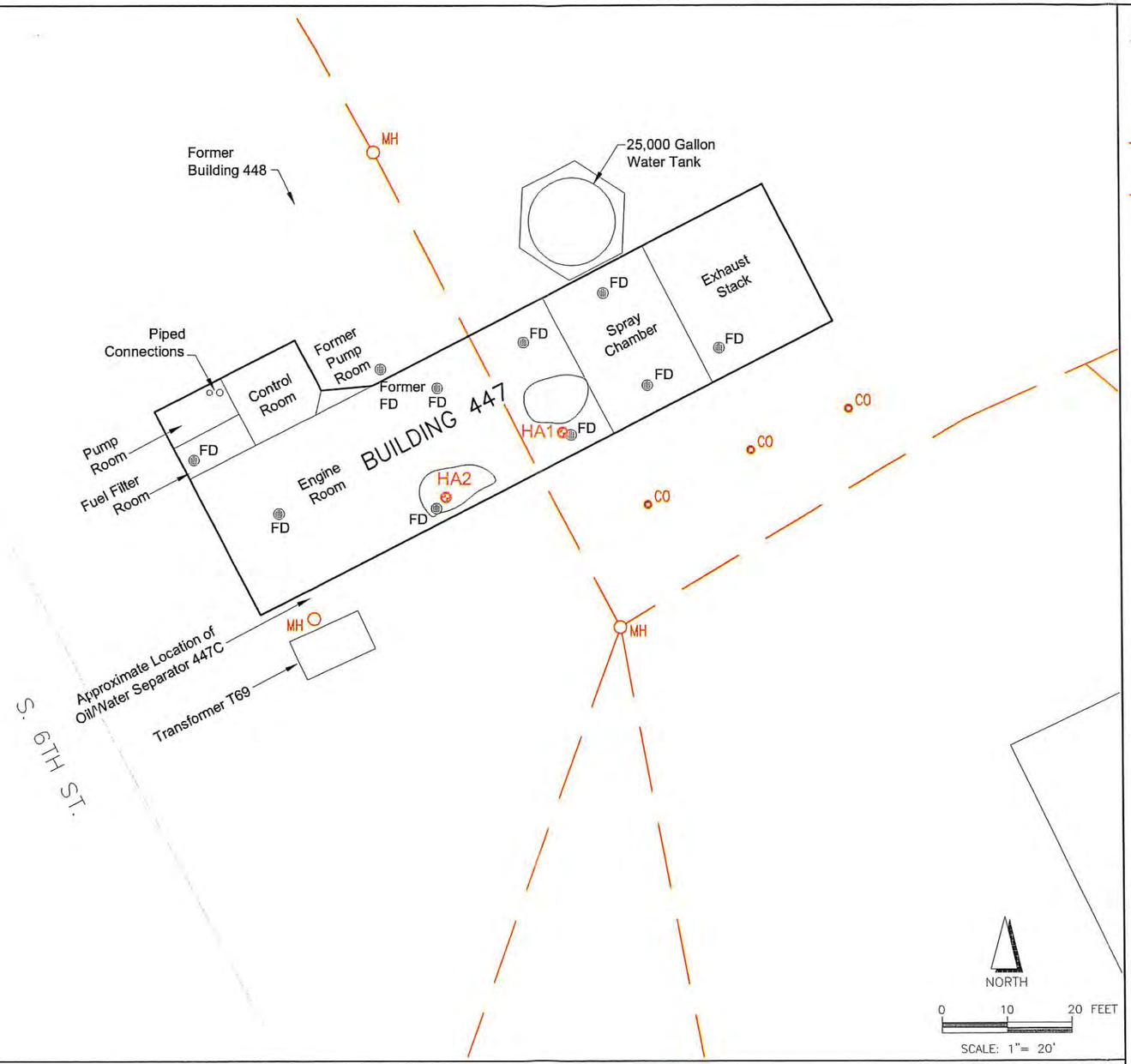
J = The concentration is an estimate

PRL 447

Exterior View of NW Corner of Building (Facing South)

Interior of Test Cell Showing Plugged Floor Drain and Stained Concrete. Soil Sample Borehole HA2 was Drilled Next to Floor Drain (Facing Southeast)

Soil Sample Borehole HA1 Next to Floor Drain and Stained Concrete (Facing Southeast)



LEGEND:

- Edge of Road
- FD — Floor Drain
- HA2 — Hand Auger Soil Sample Location
- Sewer Line
- CO — Sewer Line Clean Out
- MH — Sewer Line Manhole
- Staining

Background:
The building was identified as an engine test cell in the 1973 and later station facilities maps.
Five locations of concern (LOCs) are associated with this site. OWS 447C (SWMU/AOC 132) was closed in place; the site was closed by the California Regional Water Quality Control Board (RWQCB), Santa Ana Region. PCB T69 is a transformer, which has been replaced; no further action (NFA) was recommended. RFA 131 is inactive; the site was closed by the California Department of Toxic Substances Control (DTSC). UST 447A and UST 447B were both removed; both USTs were closed by RWQCB.

Sampling and Analysis Summary:
Two soil samples were collected from two boreholes (HA1 and HA2 at depth ranges of 0.5' to 1.0' below ground surface). The soil sample from borehole HA1 was analyzed for SVOCs and TPH. The soil sample from borehole HA2 was analyzed for VOCs, SVOCs, and TPH.

Analytical Results:
No analyte (contributing to risk) was detected. TPH, as motor oils and as extractables, was reported at maximum (estimated values) concentrations of 8 mg/kg and 10 mg/kg, respectively, at HA2.

Risk Screening:
No risk screening required.

Conclusion:
No further action was recommended and concurred with by EPA and DTSC per letters dated April 11, 2003.

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Building interior and exterior locations and details are approximate.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening PRL 447

Environmental Baseline Survey

Date: 08-03	Former MCAS El Toro	Figure 11
Project No. 54506	EARTH TECH — A tyco INTERNATIONAL LTD. COMPANY	

File: M:\Projects\54506_(CTO-104)\EBS\CAD\Phase1_Investigation\Transferrable_PRLs\Tech Sheets\Final\PRL447_F.dwg Time: Aug 18, 2003 - 9:31am

Table 11. Analytical Data, PRL-447

Analyte	Units	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL447-HA2 0.5'-1.0' bgs LJ139	PRL447-HA1 0.5'-1.0' bgs LJ140
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	µg/kg	3.2E+03	3.2E+03	5.2E+05	5.2 U	NA
1,1,1-Trichloroethane	µg/kg	1.2E+06	--	2.0E+06	5.2 U	NA
1,1,2,2-Tetrachloroethane	µg/kg	4.1E+02	4.1E+02	1.0E+06	5.2 U	NA
1,1,2-Trichloroethane	µg/kg	7.3E+02	7.3E+02	3.6E+04	5.2 U	NA
1,1,2-Trichlorotrifluoroethane	µg/kg	5.6E+06	--	2.1E+07	5.2 UJ	NA
1,1-Dichloroethane	µg/kg	5.1E+05	--	5.1E+05	5.2 U	NA
1,1-Dichloroethene	µg/kg	1.2E+05	--	1.2E+05	5.2 U	NA
1,2-Dichloroethane	µg/kg	2.8E+02	2.8E+02	8.5E+03	5.2 U	NA
1,2-Dichloropropane	µg/kg	3.4E+02	3.4E+02	6.0E+03	5.2 U	NA
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	5.2 UJ	NA
2-Butanone	µg/kg	7.3E+06	--	7.3E+06	100 UJ	NA
2-Hexanone	µg/kg	--	--	--	52 U	NA
4-Methyl-2-pentanone	µg/kg	7.9E+05	--	7.9E+05	52 U	NA
Acetone	µg/kg	1.6E+06	--	1.6E+06	100 U	NA
Benzene	µg/kg	6.0E+02	6.0E+02	7.1E+03	5.2 U	NA
Bromodichloromethane	µg/kg	8.2E+02	8.2E+02	2.2E+05	5.2 U	NA
Bromoform	µg/kg	6.2E+04	6.2E+04	1.2E+06	5.2 U	NA
Bromomethane	µg/kg	3.9E+03	--	3.9E+03	5.2 U	NA
Carbon Disulfide	µg/kg	3.6E+05	--	3.6E+05	5.2 U	NA
Carbon Tetrachloride	µg/kg	2.5E+02	2.5E+02	2.2E+03	5.2 UJ	NA
Chlorobenzene	µg/kg	1.5E+05	--	1.5E+05	5.2 U	NA
Chloroethane	µg/kg	3.0E+03	3.0E+03	5.0E+06	5.2 U	NA
Chloroform	µg/kg	9.4E+02	9.4E+02	3.6E+03	5.2 U	NA
Chloromethane	µg/kg	1.2E+03	1.2E+03	--	5.2 U	NA
cis-1,2-Dichloroethene	µg/kg	4.3E+04	--	4.3E+04	5.2 U	NA
cis-1,3-Dichloropropene	µg/kg	7.8E+02	7.8E+02	1.6E+04	5.2 U	NA
Dibromochloromethane	µg/kg	1.1E+03	1.1E+03	3.8E+05	5.2 U	NA
Dichlorodifluoromethane (Freon-12)	µg/kg	9.4E+04	--	9.4E+04	5.2 U	NA
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	5.2 U	NA
Ethyl tertiary butyl ether	µg/kg	--	--	--	5.2 U	NA
Ethylbenzene	µg/kg	8.9E+03	8.9E+03	1.9E+06	5.2 U	NA
Methylene Chloride	µg/kg	9.1E+03	9.1E+03	2.0E+06	5.2 U	NA
Methyl-tert butyl ether (MTBE)	µg/kg	1.7E+04	1.7E+04	5.8E+06	5.2 U	NA
Styrene	µg/kg	1.7E+06	--	4.4E+06	5.2 U	NA
Tertiary amyl methyl ether	µg/kg	--	--	--	5.2 U	NA
Tertiary Butyl Alcohol	µg/kg	--	--	--	21 UJ	NA
Tetrachloroethene (PCE)	µg/kg	1.5E+03	1.5E+03	3.6E+05	5.2 U	NA
Toluene	µg/kg	5.2E+05	--	6.6E+05	5.2 U	NA
Total Xylenes	µg/kg	2.8E+05	--	2.8E+05	15 U	NA
Trans-1,2-Dichloroethene	µg/kg	7.0E+04	--	7.0E+04	5.2 UJ	NA
Trans-1,3-Dichloropropene	µg/kg	7.8E+02	7.8E+02	1.6E+04	5.2 U	NA
Trichloroethene (TCE)	µg/kg	5.3E+01	5.3E+01	1.6E+04	5.2 U	NA
Trichlorofluoromethane (Freon-11)	µg/kg	3.9E+05	--	3.9E+05	5.2 U	NA
Vinyl Chloride	µg/kg	7.9E+01	7.9E+01	3.9E+04	5.2 U	NA
Semivolatile Organic Compounds (SVOCs)						
1,2,4-Trichlorobenzene	µg/kg	6.5E+05	--	6.5E+05	540 U	530 U
1,2-Dichlorobenzene	µg/kg	3.7E+05	--	1.1E+06	540 U	530 U
1,3-Dichlorobenzene	µg/kg	1.6E+04	--	1.6E+04	540 U	530 U
1,4-Dichlorobenzene	µg/kg	3.5E+03	3.5E+03	4.8E+05	540 U	530 U
2,2'-Oxybis(1-chloropropane)	µg/kg	2.9E+03	2.9E+03	9.5E+05	540 U	530 U
2,4,5-Trichlorophenol	µg/kg	6.1E+06	--	6.1E+06	540 U	530 U
2,4,6-Trichlorophenol	µg/kg	6.1E+03	7.0E+03	6.1E+03	540 U	530 U
2,4-Dichlorophenol	µg/kg	1.8E+05	--	1.8E+05	540 U	530 U
2,4-Dimethylphenol	µg/kg	1.2E+06	--	1.2E+06	540 U	530 U
2,4-Dinitrophenol	µg/kg	1.2E+05	--	1.2E+05	2700 U	2600 UJ

Table 11. Analytical Data, PRL-447

Analyte	Units	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL447-HA2 0.5'-1.0' bgs LJ139	PRL447-HA1 0.5'-1.0' bgs LJ140
SVOCs, Continued						
2,4-Dinitrotoluene	µg/kg	1.2E+05	--	1.2E+05	540 U	530 U
2,6-Dinitrotoluene	µg/kg	6.1E+04	--	6.1E+04	540 U	530 U
2-Chloronaphthalene	µg/kg	4.9E+06	--	4.9E+06	540 U	530 U
2-Chlorophenol	µg/kg	6.3E+04	--	6.3E+04	540 U	530 U
2-Methylphenol	µg/kg	3.1E+06	--	3.1E+06	540 U	530 U
2-Nitroaniline	µg/kg	1.8E+03	--	1.8E+03	2700 U	2600 U
2-Nitrophenol	µg/kg	--	--	--	540 U	530 U
3,3'-Dichlorobenzidine	µg/kg	1.1E+03	1.1E+03	--	1100 U	1100 U
3/4-methylphenol	µg/kg	3.1E+05	--	3.1E+05	540 U	530 U
3-Nitroaniline	µg/kg	--	--	--	2700 U	2600 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	2700 U	2600 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	540 U	530 U
4-Chloro-3-Methylphenol	µg/kg	--	--	--	540 U	530 U
4-Chloroaniline	µg/kg	2.4E+05	--	2.4E+05	1100 U	1100 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	540 U	530 U
4-Nitroaniline	µg/kg	--	--	--	2700 U	2600 U
4-Nitrophenol	µg/kg	--	--	--	2700 U	2600 U
bis(2-chlorethoxy)methane	µg/kg	--	--	--	540 U	530 U
bis(2-chloroethyl)ether	µg/kg	2.1E+02	2.1E+02	--	540 U	530 U
bis(2-ethylhexyl)phthalate	µg/kg	3.5E+04	3.5E+04	1.2E+06	540 U	530 U
Butylbenzylphthalate	µg/kg	1.2E+07	--	1.2E+07	540 U	530 U
Carbazole	µg/kg	2.4E+04	2.4E+04	--	540 U	530 U
Dibenzofuran	µg/kg	2.9E+05	--	2.9E+05	540 U	530 U
Diethylphthalate	µg/kg	4.9E+07	--	4.9E+07	540 U	530 U
Dimethylphthalate	µg/kg	1.0E+08	--	6.1E+08	540 U	530 U
Di-n-butylphthalate	µg/kg	--	--	--	540 U	530 U
Di-n-octylphthalate	µg/kg	2.4E+06	--	2.4E+06	540 U	530 U
Hexachlorobenzene	µg/kg	3.0E+02	3.0E+02	4.9E+04	540 U	530 U
Hexachlorobutadiene	µg/kg	6.2E+03	6.2E+03	1.8E+04	540 U	530 U
Hexachlorocyclopentadiene	µg/kg	3.7E+05	--	3.7E+05	2700 U	2600 U
Hexachloroethane	µg/kg	3.5E+04	3.5E+04	6.1E+04	540 U	530 U
Isophorone	µg/kg	5.1E+05	5.1E+05	1.2E+07	540 U	530 U
Nitrobenzene	µg/kg	2.0E+04	--	2.0E+04	540 U	530 U
n-Nitrosodi-n-propylamine	µg/kg	7.0E+01	7.0E+01	--	540 U	530 U
n-Nitroso-diphenylamine	µg/kg	9.9E+04	9.9E+04	--	2700 U	2600 U
Pentachlorophenol	µg/kg	3.0E+03	3.0E+03	1.4E+06	1800 U	1800 U
Phenol	µg/kg	3.7E+07	--	3.7E+07	540 U	530 U
Hydrocarbons						
Motor Oils	mg/kg	--	--	--	8 J	11 U
Total Extractable Petroleum Hydrocarbons	mg/kg	--	--	--	10 J	11 U
Total Volatile Petroleum Hydrocarbons	mg/kg	--	--	--	8.9 U	NA
pH						
pH	pH Units	--	--	--	9.14	9.33

Notes:

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

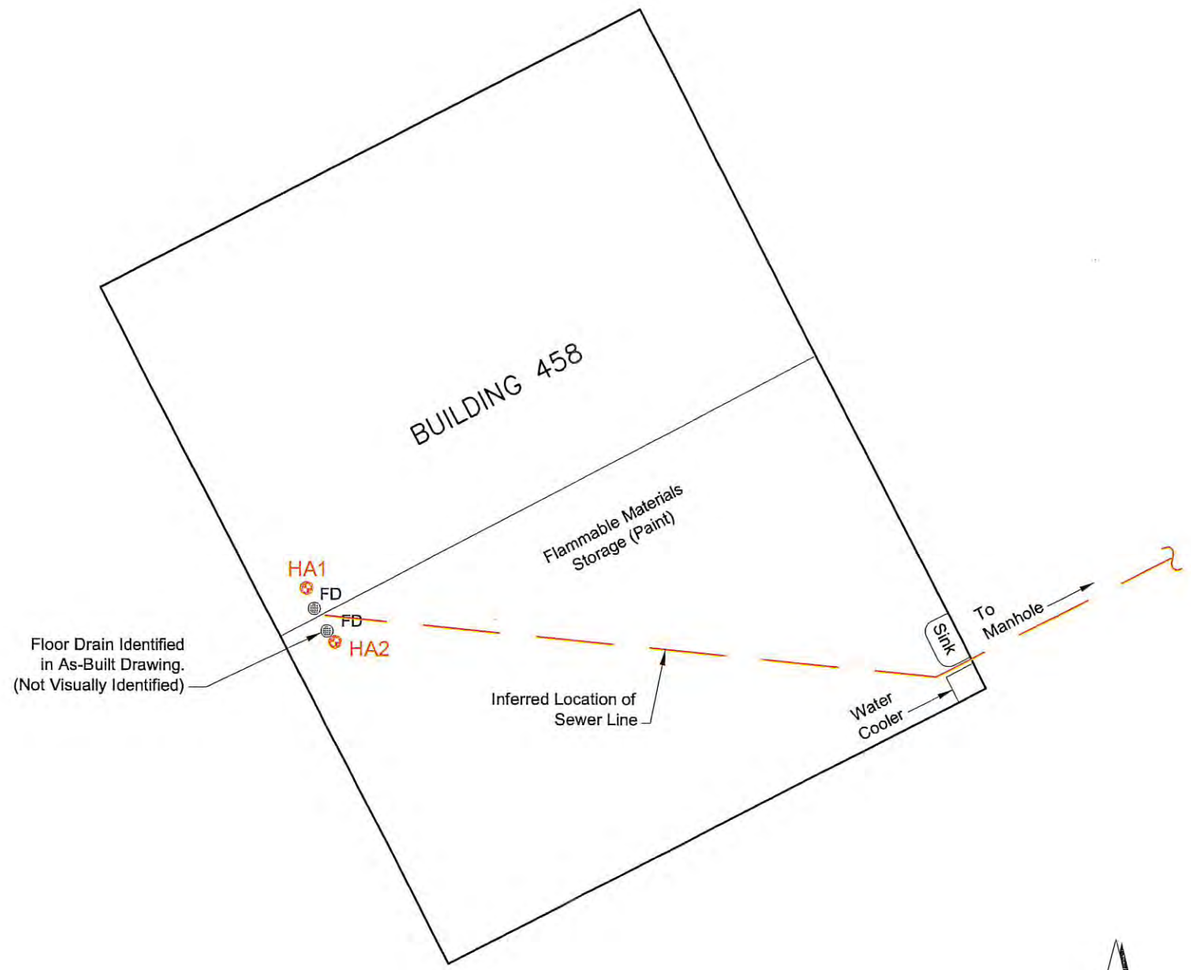
J = The concentration is an estimate

NA = The sample was not analyzed for the specified analyte.

PRL 458

Building Exterior
(Facing Northeast)

Location of Soil Sample Borehole
HA1(Facing South)



LEGEND:

- Edge of Road
- FD — Floor Drain
- HA1 — Hand Auger Soil Sample Location
- Sewer Line
- Sink

Background:
The building was identified as a hazardous and flammable storage materials facility in 1973.
One location of concern is associated with this site. PCB T075 is a transformer, which is still active; no further action (NFA) was recommended.

Sampling and Analysis Summary:
Potential contamination may be associated with staining identified in and around floor drains in the building. Two soil samples were collected from two locations (HA1 at a depth range of 0.5' to 1.5' below ground surface [bgs], and HA2 at a depth range of 0.5' to 1.0' bgs). Soil samples from both locations were analyzed for VOCs, SVOCs, and TPH.

Analytical Results:
No analyte exceeded its respective residential preliminary remediation goal (PRG).

Risk Screening:
The maximum concentration detected for each analyte from all samples collected at the site was used as the exposure point concentration and compared to EPA Region 9 PRGs to calculate the cumulative risk ratios. The results indicated no significant cancer or noncancer risk (see table for summary).

Conclusion:
No further action was recommended and concurred with by EPA and DTSC per letters dated April 11, 2003.

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Building interior and exterior locations and details are approximate.

Risk Screening Results - Comparison to EPA Region 9 Residential PRGs and MCAS El Toro Background Values

Analyte	Units	Cancer Risk Screening Value	Noncancer Risk Screening Value	Site-Wide Maximum Value	Site-Wide Maximum Location	Risk Ratio Cancer	Risk Ratio Noncancer
Volatile Organic Compounds (VOCs)							
Acetone	µg/kg	--	1.6E+06	24	HA1@0.5'-1.5'	--	<0.01
			Cumulative Risk Ratio:				<0.01

Notes: -- indicates the specified criteria does not exist. Bold indicates concentration above PRG value.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening PRL 458

Environmental Baseline Survey

Date: 08-03	Former MCAS El Toro	Figure 12
Project No. 54506	EARTH TECH — A tyco INTERNATIONAL LTD. COMPANY	

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Table 12. Analytical Data, PRL-458

Analyte	Units	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL458-HA1 0.5'-1.5' bgs LJ147	PRL458-HA2 0.5'-1.0' bgs LJ148
SVOCs, Continued						
2,4-Dinitrotoluene	µg/kg	1.2E+05	--	1.2E+05	620 U	610 U
2,6-Dinitrotoluene	µg/kg	6.1E+04	--	6.1E+04	620 U	610 U
2-Chloronaphthalene	µg/kg	4.9E+06	--	4.9E+06	620 U	610 U
2-Chlorophenol	µg/kg	6.3E+04	--	6.3E+04	620 U	610 U
2-Methylphenol	µg/kg	3.1E+06	--	3.1E+06	620 U	610 U
2-Nitroaniline	µg/kg	1.8E+03	--	1.8E+03	3100 U	3000 U
2-Nitrophenol	µg/kg	--	--	--	620 U	610 U
3,3'-Dichlorobenzidine	µg/kg	1.1E+03	1.1E+03	--	1200 U	1200 U
3/4-methylphenol	µg/kg	3.1E+05	--	3.1E+05	620 U	610 U
3-Nitroaniline	µg/kg	--	--	--	3100 U	3000 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	3100 U	3000 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	620 U	610 U
4-Chloro-3-Methylphenol	µg/kg	--	--	--	620 U	610 U
4-Chloroaniline	µg/kg	2.4E+05	--	2.4E+05	1200 U	1200 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	620 U	610 U
4-Nitroaniline	µg/kg	--	--	--	3100 U	3000 U
4-Nitrophenol	µg/kg	--	--	--	3100 U	3000 U
bis(2-chlorethoxy)methane	µg/kg	--	--	--	620 U	610 U
bis(2-chloroethyl)ether	µg/kg	2.1E+02	2.1E+02	--	620 U	610 U
bis(2-ethylhexyl)phthalate	µg/kg	3.5E+04	3.5E+04	1.2E+06	620 U	610 U
Butylbenzylphthalate	µg/kg	1.2E+07	--	1.2E+07	620 U	610 U
Carbazole	µg/kg	2.4E+04	2.4E+04	--	620 U	610 U
Dibenzofuran	µg/kg	2.9E+05	--	2.9E+05	620 U	610 U
Diethylphthalate	µg/kg	4.9E+07	--	4.9E+07	620 U	610 U
Dimethylphthalate	µg/kg	1.0E+08	--	6.1E+08	620 U	610 U
Di-n-butylphthalate	µg/kg	--	--	--	620 U	610 U
Di-n-octylphthalate	µg/kg	2.4E+06	--	2.4E+06	620 U	610 U
Hexachlorobenzene	µg/kg	3.0E+02	3.0E+02	4.9E+04	620 U	610 U
Hexachlorobutadiene	µg/kg	6.2E+03	6.2E+03	1.8E+04	620 U	610 U
Hexachlorocyclopentadiene	µg/kg	3.7E+05	--	3.7E+05	3100 U	3000 U
Hexachloroethane	µg/kg	3.5E+04	3.5E+04	6.1E+04	620 U	610 U
Isophorone	µg/kg	5.1E+05	5.1E+05	1.2E+07	620 U	610 U
Nitrobenzene	µg/kg	2.0E+04	--	2.0E+04	620 U	610 U
n-Nitrosodi-n-propylamine	µg/kg	7.0E+01	7.0E+01	--	620 U	610 U
n-Nitroso-diphenylamine	µg/kg	9.9E+04	9.9E+04	--	3100 U	3000 U
Pentachlorophenol	µg/kg	3.0E+03	3.0E+03	1.4E+06	2100 U	2100 U
Phenol	µg/kg	3.7E+07	--	3.7E+07	620 U	610 U
Hydrocarbons						
Motor Oils	mg/kg	--	--	--	12 U	12 U
Total Extractable Petroleum Hydrocarbons	mg/kg	--	--	--	12 U	12 U
Total Volatile Petroleum Hydrocarbons	mg/kg	--	--	--	11 U	11 U
pH						
pH	pH Units	--	--	--	5.56	8.11

Notes:

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

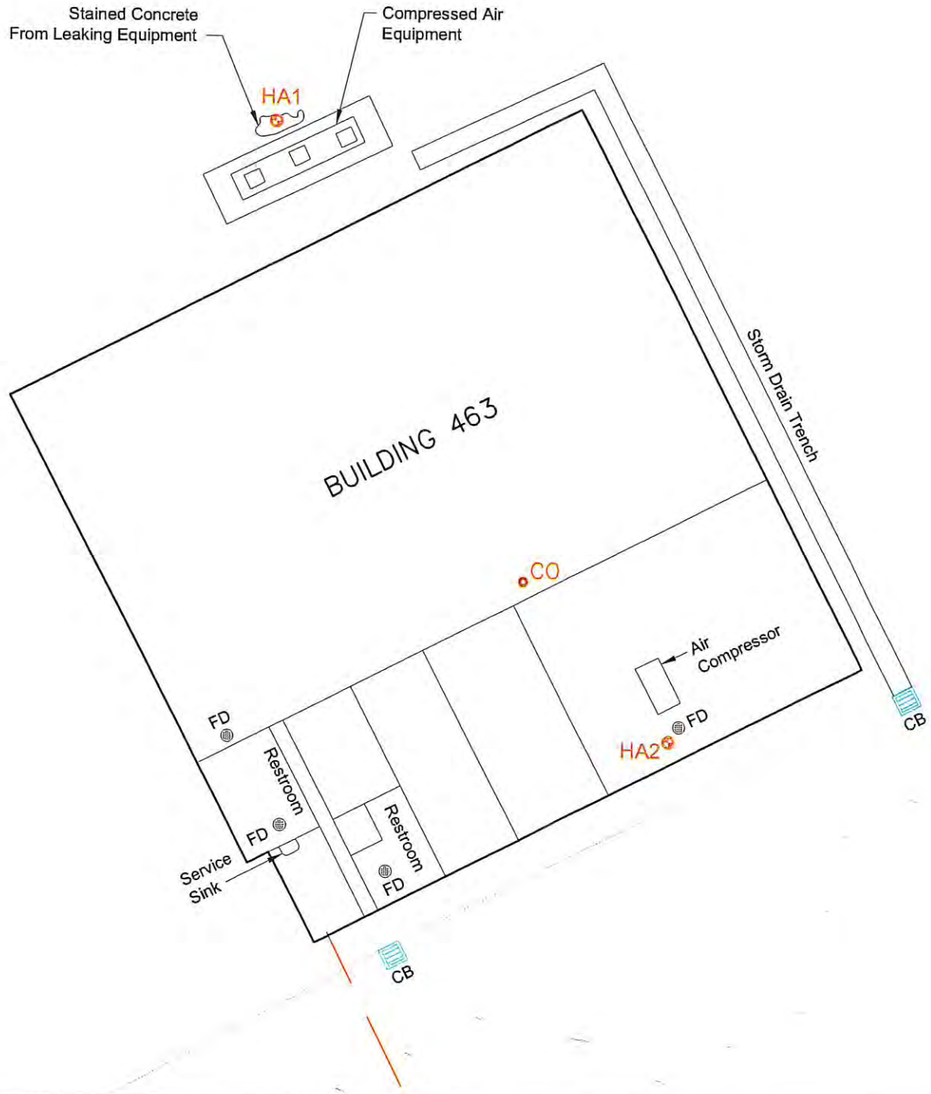
U = The analyte was not detected above the detection limit shown.

J = The concentration is an estimate

PRL 463

Photo of Borehole HA1 Adjacent to Staining Near Air Compressor for Collection of Soil Sample (Facing Southwest)

Photo of Area Near Borehole HA2. Air Compressor at Left and Floor Drain and Borehole at Lower Right of Photograph (Facing East)



LEGEND:

- Edge of Road
- FD — Floor Drain
- HA3 — Hand Auger Soil Sample Location
- Sewer Line
- CO — Sewer Line Clean Out
- CB — Storm Drain Catch Basin
- Sink
- Staining

Background:
The building was identified as a maintenance hanger in 1973 and an engine maintenance shop in 1997.
Four locations of concern (LOCs) are associated with this site. OWS 845 (SWMU/AOC 249) was closed in place; the site was closed by the California Regional Water Quality Control Board (RWQCB), Santa Ana Region. RFA 141 was recommended for no further action; the BCT concurred through acceptance of the 1995 Environmental Baseline Survey (EBS). RFA 142 was recommended for NFA; the BCT concurred through acceptance of the 1995 EBS. UST 463 (SWMU/AOC 249) was removed; the site was closed by RWQCB.

Sampling and Analysis Summary:
Potential contamination associated with leaking equipment was investigated. Two soil samples were collected from two locations (HA1 at a depth range of 0.5' to 1.0' below ground surface [bgs] and HA2 at a depth range of 1.0' to 2.0' bgs). The soil sample from location HA1 was analyzed for TPH. The soil sample from location HA2 was analyzed for VOCs, SVOCs, TPH, and metals.

Analytical Results:
No analyte exceeded its respective residential preliminary remediation goal (PRG). TPH as volatiles was detected at a maximum (estimated) concentration of 0.02 mg/kg at location HA1.

Risk Screening:
The maximum concentration detected for each analyte from all samples collected at the site was used as the exposure point concentration and compared to EPA Region 9 PRGs to calculate the cumulative risk ratio. The results indicated no significant cancer or noncancer risk (see table for summary).

Conclusion:
No further action was recommended and concurred with by DTSC per letter dated April 11, 2003 and EPA per letters dated April 11 and April 24, 2003.

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Building interior and exterior locations and details are approximate.

Risk Screening Results - Comparison to EPA Region 9 Residential PRGs and MCAS El Toro Background Values

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Cancer Risk Screening Value	Noncancer Risk Screening Value	Site-Wide Maximum Value	Site-Wide Maximum Location	Risk Ratio Cancer	Risk Ratio Noncancer
Volatile Organic Compounds (VOCs)								
Methylene Chloride	µg/kg	--	9.1E+03	2.0E+06	0.8	HA2@1.0'-2.0'	<0.01	<0.01
Metals								
Aluminum	mg/kg	14800	--	7.6E+04	15300	HA2@1.0'-2.0'	--	0.20
				Cumulative Risk Ratio:			<0.01	0.20

Notes: -- indicates the specified criteria does not exist. Bold indicates concentration above MCAS El Toro Background value or PRG value, whichever is higher.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening PRL 463

Environmental Baseline Survey

Date: 08-03 | Former MCAS El Toro | Figure 13

Project No. 54506

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

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Table 13. Analytical Results, PRL-463

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL463-HA1 0.5'-1.0' bgs LJ137	PRL463-HA2 1.0'-2.0' bgs LJ138
Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	µg/kg	--	3.2E+03	3.2E+03	5.2E+05	NA	5 U
1,1,1-Trichloroethane	µg/kg	--	1.2E+06	--	2.0E+06	NA	5 U
1,1,2,2-Tetrachloroethane	µg/kg	--	4.1E+02	4.1E+02	1.0E+06	NA	5 U
1,1,2-Trichloroethane	µg/kg	--	7.3E+02	7.3E+02	3.6E+04	NA	5 U
1,1,2-Trichlorotrifluoroethane	µg/kg	--	5.6E+06	--	2.1E+07	NA	5 UJ
1,1-Dichloroethane	µg/kg	--	5.1E+05	--	5.1E+05	NA	5 U
1,1-Dichloroethene	µg/kg	--	1.2E+05	--	1.2E+05	NA	5 U
1,2-Dichloroethane	µg/kg	--	2.8E+02	2.8E+02	8.5E+03	NA	5 U
1,2-Dichloropropane	µg/kg	--	3.4E+02	3.4E+02	6.0E+03	NA	5 U
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	--	NA	5 UJ
2-Butanone	µg/kg	--	7.3E+06	--	7.3E+06	NA	100 U
2-Hexanone	µg/kg	--	--	--	--	NA	50 UJ
4-Methyl-2-pentanone	µg/kg	--	7.9E+05	--	7.9E+05	NA	50 UJ
Acetone	µg/kg	--	1.6E+06	--	1.6E+06	NA	100 UJ
Benzene	µg/kg	--	6.0E+02	6.0E+02	7.1E+03	NA	5 U
Bromodichloromethane	µg/kg	--	8.2E+02	8.2E+02	2.2E+05	NA	5 U
Bromoform	µg/kg	--	6.2E+04	6.2E+04	1.2E+06	NA	5 U
Bromomethane	µg/kg	--	3.9E+03	--	3.9E+03	NA	5 U
Carbon Disulfide	µg/kg	--	3.6E+05	--	3.6E+05	NA	5 U
Carbon Tetrachloride	µg/kg	--	2.5E+02	2.5E+02	2.2E+03	NA	5 UJ
Chlorobenzene	µg/kg	--	1.5E+05	--	1.5E+05	NA	5 U
Chloroethane	µg/kg	--	3.0E+03	3.0E+03	5.0E+06	NA	5 U
Chloroform	µg/kg	--	9.4E+02	9.4E+02	3.6E+03	NA	5 U
Chloromethane	µg/kg	--	1.2E+03	1.2E+03	--	NA	5 U
cis-1,2-Dichloroethene	µg/kg	--	4.3E+04	--	4.3E+04	NA	5 U
cis-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	NA	5 U
Dibromochloromethane	µg/kg	--	1.1E+03	1.1E+03	3.8E+05	NA	5 U
Dichlorodifluoromethane (Freon-12)	µg/kg	--	9.4E+04	--	9.4E+04	NA	5 U
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	--	NA	5 UJ
Ethyl tertiary butyl ether	µg/kg	--	--	--	--	NA	5 U
Ethylbenzene	µg/kg	--	8.9E+03	8.9E+03	1.9E+06	NA	5 U
Methylene Chloride	µg/kg	--	9.1E+03	9.1E+03	2.0E+06	NA	0.8 J
Methyl-tert butyl ether (MTBE)	µg/kg	--	1.7E+04	1.7E+04	5.8E+06	NA	5 U
Styrene	µg/kg	--	1.7E+06	--	4.4E+06	NA	5 U
Tertiary amyl methyl ether	µg/kg	--	--	--	--	NA	5 U
Tertiary Butyl Alcohol	µg/kg	--	--	--	--	NA	20 UJ
Tetrachloroethene (PCE)	µg/kg	--	1.5E+03	1.5E+03	3.6E+05	NA	5 U
Toluene	µg/kg	--	5.2E+05	--	6.6E+05	NA	5 U
Total Xylenes	µg/kg	--	2.8E+05	--	2.8E+05	NA	15 UJ
Trans-1,2-Dichloroethene	µg/kg	--	7.0E+04	--	7.0E+04	NA	5 UJ
Trans-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	NA	5 U
Trichloroethene (TCE)	µg/kg	--	5.3E+01	5.3E+01	1.6E+04	NA	5 U
Trichlorofluoromethane (Freon-11)	µg/kg	--	3.9E+05	--	3.9E+05	NA	5 U
Vinyl Chloride	µg/kg	--	7.9E+01	7.9E+01	3.9E+04	NA	5 U
Semivolatile Organic Compounds (SVOCs)							
1,2,4-Trichlorobenzene	µg/kg	--	6.5E+05	--	6.5E+05	NA	540 U
1,2-Dichlorobenzene	µg/kg	--	3.7E+05	--	1.1E+06	NA	540 U
1,3-Dichlorobenzene	µg/kg	--	1.6E+04	--	1.6E+04	NA	540 U
1,4-Dichlorobenzene	µg/kg	--	3.5E+03	3.5E+03	4.8E+05	NA	540 U
2,2'-Oxybis(1-chloropropane)	µg/kg	--	2.9E+03	2.9E+03	9.5E+05	NA	540 U
2,4,5-Trichlorophenol	µg/kg	--	6.1E+06	--	6.1E+06	NA	540 U
2,4,6-Trichlorophenol	µg/kg	--	6.1E+03	7.0E+03	6.1E+03	NA	540 U
2,4-Dichlorophenol	µg/kg	--	1.8E+05	--	1.8E+05	NA	540 U
2,4-Dimethylphenol	µg/kg	--	1.2E+06	--	1.2E+06	NA	540 U
2,4-Dinitrophenol	µg/kg	--	1.2E+05	--	1.2E+05	NA	2700 UJ

Table 13. Analytical Results, PRL-463

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL463-HA1 0.5'-1.0' bgs LJ137	PRL463-HA2 1.0'-2.0' bgs LJ138
SVOCs, Continued							
2,4-Dinitrotoluene	µg/kg	--	1.2E+05	--	1.2E+05	NA	540 U
2,6-Dinitrotoluene	µg/kg	--	6.1E+04	--	6.1E+04	NA	540 U
2-Chloronaphthalene	µg/kg	--	4.9E+06	--	4.9E+06	NA	540 U
2-Chlorophenol	µg/kg	--	6.3E+04	--	6.3E+04	NA	540 U
2-Methylphenol	µg/kg	--	3.1E+06	--	3.1E+06	NA	540 U
2-Nitroaniline	µg/kg	--	1.8E+03	--	1.8E+03	NA	2700 U
2-Nitrophenol	µg/kg	--	--	--	--	NA	540 U
3,3'-Dichlorobenzidine	µg/kg	--	1.1E+03	1.1E+03	--	NA	1100 U
3/4-methylphenol	µg/kg	--	3.1E+05	--	3.1E+05	NA	540 U
3-Nitroaniline	µg/kg	--	--	--	--	NA	2700 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	NA	2700 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	--	NA	540 U
4-Chloro-3-Methylphenol	µg/kg	--	--	--	--	NA	540 U
4-Chloroaniline	µg/kg	--	2.4E+05	--	2.4E+05	NA	1100 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	--	NA	540 U
4-Nitroaniline	µg/kg	--	--	--	--	NA	2700 U
4-Nitrophenol	µg/kg	--	--	--	--	NA	2700 U
bis(2-chlorethoxy)methane	µg/kg	--	--	--	--	NA	540 U
bis(2-chloroethyl)ether	µg/kg	--	2.1E+02	2.1E+02	--	NA	540 U
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	3.5E+04	1.2E+06	NA	540 U
Butylbenzylphthalate	µg/kg	--	1.2E+07	--	1.2E+07	NA	540 U
Carbazole	µg/kg	--	2.4E+04	2.4E+04	--	NA	540 U
Dibenzofuran	µg/kg	--	2.9E+05	--	2.9E+05	NA	540 U
Diethylphthalate	µg/kg	--	4.9E+07	--	4.9E+07	NA	540 U
Dimethylphthalate	µg/kg	--	1.0E+08	--	6.1E+08	NA	540 U
Di-n-butylphthalate	µg/kg	--	--	--	--	NA	540 U
Di-n-octylphthalate	µg/kg	--	2.4E+06	--	2.4E+06	NA	540 U
Hexachlorobenzene	µg/kg	--	3.0E+02	3.0E+02	4.9E+04	NA	540 U
Hexachlorobutadiene	µg/kg	--	6.2E+03	6.2E+03	1.8E+04	NA	540 U
Hexachlorocyclopentadiene	µg/kg	--	3.7E+05	--	3.7E+05	NA	2700 U
Hexachloroethane	µg/kg	--	3.5E+04	3.5E+04	6.1E+04	NA	540 U
Isophorone	µg/kg	--	5.1E+05	5.1E+05	1.2E+07	NA	540 U
Nitrobenzene	µg/kg	--	2.0E+04	--	2.0E+04	NA	540 U
n-Nitrosodi-n-propylamine	µg/kg	--	7.0E+01	7.0E+01	--	NA	540 U
n-Nitroso-diphenylamine	µg/kg	--	9.9E+04	9.9E+04	--	NA	2700 U
Pentachlorophenol	µg/kg	--	3.0E+03	3.0E+03	1.4E+06	NA	1900 U
Phenol	µg/kg	--	3.7E+07	--	3.7E+07	NA	540 U
Hydrocarbons							
Motor Oils	mg/kg	--	--	--	--	11 U	11 U
Total Extractable Petroleum Hydrocarbons	mg/kg	--	--	--	--	11 U	11 U
Total Volatile Petroleum Hydrocarbons	mg/kg	--	--	--	--	8.5 U	0.02 J
Metals							
Aluminum	mg/kg	14800	7.6E+04	--	7.6E+04	NA	15300
Antimony	mg/kg	3.06	3.1E+01	--	3.1E+01	NA	13 U
Arsenic	mg/kg	6.86	3.9E-01	3.9E-01	2.2E+01	NA	3.5
Barium	mg/kg	173	5.4E+03	--	5.4E+03	NA	123
Beryllium	mg/kg	0.669	1.5E+02	1.1E+03	1.5E+02	NA	0.27
Cadmium	mg/kg	2.35	1.7E+00	1.7E+00	1.7E+00	NA	0.52
Calcium	mg/kg	46000	--	--	--	NA	6320 J
Chromium	mg/kg	26.9	2.1E+02	2.1E+02	--	NA	12.9
Cobalt	mg/kg	6.98	9.0E+02	9.0E+02	1.4E+03	NA	5.6
Copper	mg/kg	6.41	3.1E+03	--	3.1E+03	NA	4.6
Iron	mg/kg	18400	2.4E+04	--	2.4E+04	NA	13200
Lead	mg/kg	15.1	1.5E+02	--	--	NA	4.3
Magnesium	mg/kg	8370	--	--	--	NA	5020

Table 13. Analytical Results, PRL-463

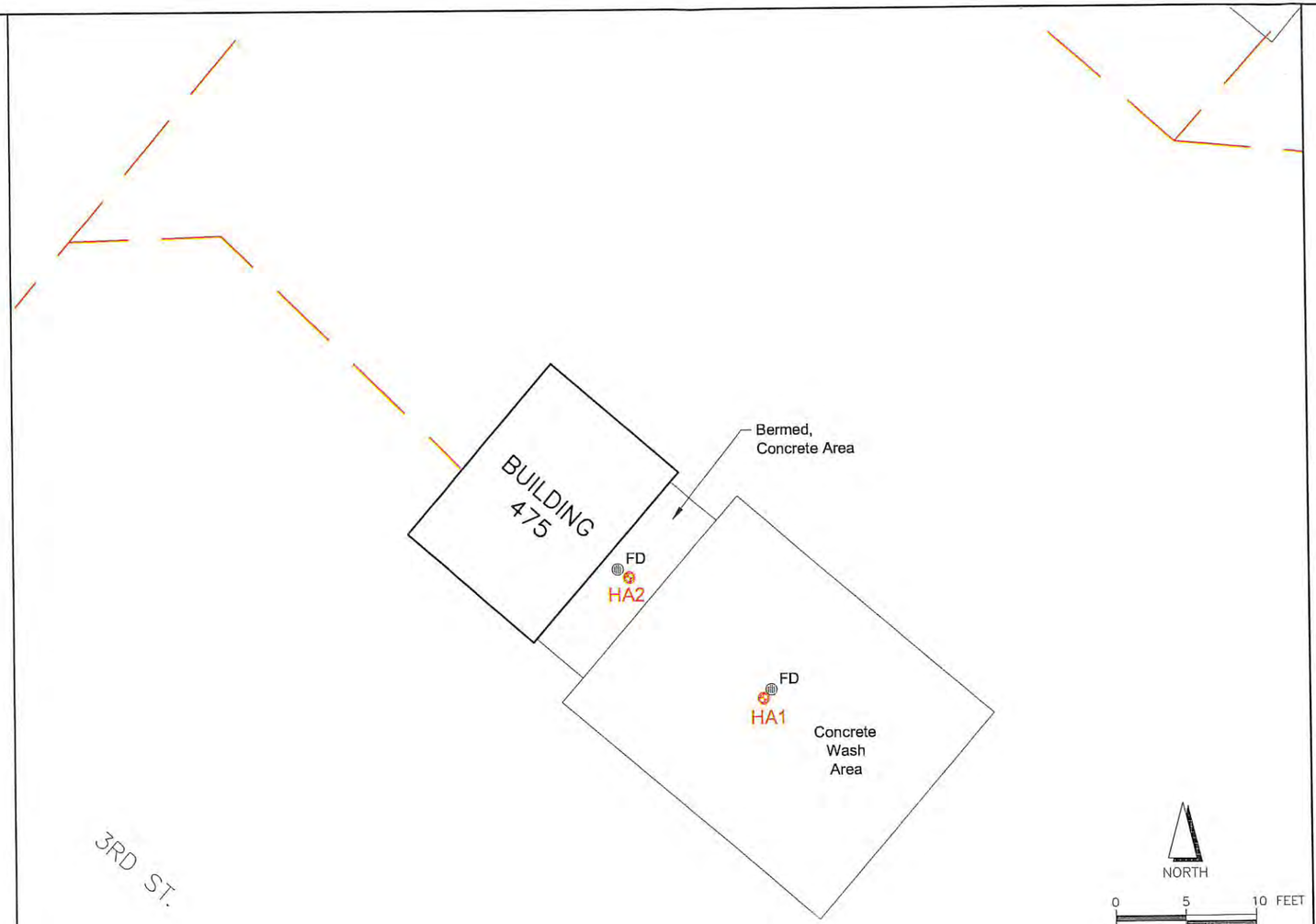
Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL463-HA1 0.5'-1.0' bgs LJ137	PRL463-HA2 1.0'-2.0' bgs LJ138
Metals, Continued							
Manganese	mg/kg	291	1.8E+03	--	1.8E+03	NA	191
Mercury	mg/kg	0.22	2.4E+01	--	2.4E+01	NA	0.046
Nickel	mg/kg	15.3	1.6E+03	--	1.6E+03	NA	8.7
Potassium	mg/kg	4890	--	--	--	NA	2110
Selenium	mg/kg	0.32	3.9E+02	--	3.9E+02	NA	1.3 U
Silver	mg/kg	0.539	3.9E+02	--	3.9E+02	NA	2.2 U
Sodium	mg/kg	405	--	--	--	NA	287 UJ
Thallium	mg/kg	0.42	5.2E+00	--	5.2E+00	NA	1.7 U
Vanadium	mg/kg	71.8	5.5E+02	--	5.5E+02	NA	29
Zinc	mg/kg	77.9	2.4E+04	--	2.4E+04	NA	33.2
pH							
pH	pH Units	--	--	--	--	NA	9.09

Notes:

µg/kg = micrograms per kilogram
mg/kg = miligrams per kilogram
-- = The regulatory threshold does not exist for the specified analyte.
U = The analyte was not detected above the detection limit shown.
J = The concentration is an estimate
NA = The sample was not analyzed for the specified analyte.

PRL 475

Building 475 Showing Locations of Soil Sample Boreholes HA1 and HA2 (Facing Northwest)



LEGEND:

- Edge of Road
- FD — Floor Drain
- HA1 — Hand Auger Soil Sample Location
- Sewer Line

Background:
The building was identified as a general warehouse in 1973. No locations of concern (LOCs) are associated with this site.

Sampling and Analysis Summary:
Potential pathways of soil contamination are releases of materials into the sanitary sewer line that drains the building. Two soil samples were collected from two locations (HA1 at a depth range of 1.5'-2.5' below ground surface [bgs], and HA2 at a depth range of 1.5'-3.0' bgs). Soil samples from both locations were analyzed for VOCs, SVOCs, PAHs, TPH, and metals.

Analytical Results:
One analyte exceeded its residential preliminary remediation goal (PRG). Iron was detected in the soil sample collected from location HA1 at a concentration of 24,600 mg/kg.

Risk Screening:
The maximum concentration detected for each analyte from all samples collected at the site was used as the exposure point concentration and compared to EPA Region 9 PRGs to calculate the cumulative risk ratios. The results indicated no significant cancer risk (see table for summary); the noncancer risk ratio was calculated to be 1.4, exceeding the accepted threshold of 1, which was contributed entirely by metals (drivers: iron and aluminum). All detected metal concentrations are of the same order of magnitude as their respective background concentrations. Based on historic operations at this facility and the range of detected concentrations, it is likely that the noncancer risk ratio (Hazard Index) of 1.4 is indicative of background conditions.

Conclusion:
No further action was recommended and concurred with by EPA and DTSC per letters dated April 11, 2003.

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Building interior and exterior locations and details are approximate.

Risk Screening Results - Comparison to EPA Region 9 Residential PRGs and MCAS El Toro Background Values

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Cancer Risk Screening Value	Noncancer Risk Screening Value	Site-Wide Maximum Value	Site-Wide Maximum Location	Risk Ratio Cancer	Risk Ratio Noncancer
Metals								
Aluminum	mg/kg	14800	--	7.6E+04	23100	HA1@1.5'-2.5'	--	0.30
Barium	mg/kg	173	--	5.4E+03	229	HA1@1.5'-2.5'	--	0.04
Cobalt	mg/kg	6.98	9.0E+02	1.4E+03	9.4	HA1@1.5'-2.5'	0.01	<0.01
Copper	mg/kg	6.41	--	3.1E+03	13.6	HA1@1.5'-2.5'	--	<0.01
Iron	mg/kg	18400	--	2.4E+04	**24600**	HA1@1.5'-2.5'	--	1.05
Magnesium	mg/kg	8370	--	--	**10100**	HA1@1.5'-2.5'	--	--
Potassium	mg/kg	4890	--	--	**5300**	HA1@1.5'-2.5'	--	--
				Cumulative Risk Ratio:			0.01	1.40

Notes: -- indicates the specified criteria does not exist. Bold indicates concentration above MCAS El Toro Background value or PRG value, whichever is higher.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening PRL 475

Environmental Baseline Survey

Date: 08-03	Former MCAS El Toro	Figure
Project No. 54506	EARTH TECH — A tyco INTERNATIONAL LTD. COMPANY	14

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Table 14. Analytical Results, PRL-475

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL475-HA1 1.5'-2.5' bgs LJ105	PRL475-HA2 1.5'-3.0' bgs LJ106
Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	µg/kg	--	3.2E+03	3.2E+03	5.2E+05	5.5 U	5.5 U
1,1,1-Trichloroethane	µg/kg	--	1.2E+06	--	2.0E+06	5.5 U	5.5 U
1,1,2,2-Tetrachloroethane	µg/kg	--	4.1E+02	4.1E+02	1.0E+06	5.5 U	5.5 U
1,1,2-Trichloroethane	µg/kg	--	7.3E+02	7.3E+02	3.6E+04	5.5 U	5.5 U
1,1,2-Trichlorotrifluoroethane	µg/kg	--	5.6E+06	--	2.1E+07	5.5 UJ	5.5 UJ
1,1-Dichloroethane	µg/kg	--	5.1E+05	--	5.1E+05	5.5 U	5.5 U
1,1-Dichloroethene	µg/kg	--	1.2E+05	--	1.2E+05	5.5 U	5.5 U
1,2-Dichloroethane	µg/kg	--	2.8E+02	2.8E+02	8.5E+03	5.5 U	5.5 U
1,2-Dichloropropane	µg/kg	--	3.4E+02	3.4E+02	6.0E+03	5.5 U	5.5 U
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	--	5.5 UJ	5.5 UJ
2-Butanone	µg/kg	--	7.3E+06	--	7.3E+06	110 U	110 U
2-Hexanone	µg/kg	--	--	--	--	55 UJ	55 UJ
4-Methyl-2-pentanone	µg/kg	--	7.9E+05	--	7.9E+05	55 UJ	55 UJ
Acetone	µg/kg	--	1.6E+06	--	1.6E+06	110 U	110 U
Benzene	µg/kg	--	6.0E+02	6.0E+02	7.1E+03	5.5 U	5.5 U
Bromodichloromethane	µg/kg	--	8.2E+02	8.2E+02	2.2E+05	5.5 U	5.5 U
Bromoform	µg/kg	--	6.2E+04	6.2E+04	1.2E+06	5.5 U	5.5 U
Bromomethane	µg/kg	--	3.9E+03	--	3.9E+03	5.5 U	5.5 U
Carbon Disulfide	µg/kg	--	3.6E+05	--	3.6E+05	5.5 U	5.5 U
Carbon Tetrachloride	µg/kg	--	2.5E+02	2.5E+02	2.2E+03	5.5 UJ	5.5 UJ
Chlorobenzene	µg/kg	--	1.5E+05	--	1.5E+05	5.5 U	5.5 U
Chloroethane	µg/kg	--	3.0E+03	3.0E+03	5.0E+06	5.5 U	5.5 U
Chloroform	µg/kg	--	9.4E+02	9.4E+02	3.6E+03	5.5 U	5.5 U
Chloromethane	µg/kg	--	1.2E+03	1.2E+03	--	5.5 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	--	4.3E+04	--	4.3E+04	5.5 U	5.5 U
cis-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.5 U	5.5 U
Dibromochloromethane	µg/kg	--	1.1E+03	1.1E+03	3.8E+05	5.5 U	5.5 U
Dichlorodifluoromethane (Freon-12)	µg/kg	--	9.4E+04	--	9.4E+04	5.5 U	5.5 U
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	--	5.5 U	5.5 U
Ethyl tertiary butyl ether	µg/kg	--	--	--	--	5.5 U	5.5 U
Ethylbenzene	µg/kg	--	8.9E+03	8.9E+03	1.9E+06	5.5 U	5.5 U
Methylene Chloride	µg/kg	--	9.1E+03	9.1E+03	2.0E+06	5.5 U	5.5 U
Methyl-tert butyl ether (MTBE)	µg/kg	--	1.7E+04	1.7E+04	5.8E+06	5.5 U	5.5 U
Styrene	µg/kg	--	1.7E+06	--	4.4E+06	5.5 U	5.5 U
Tertiary amyl methyl ether	µg/kg	--	--	--	--	5.5 U	5.5 U
Tertiary Butyl Alcohol	µg/kg	--	--	--	--	22 UJ	22 UJ
Tetrachloroethene (PCE)	µg/kg	--	1.5E+03	1.5E+03	3.6E+05	5.5 U	5.5 U
Toluene	µg/kg	--	5.2E+05	--	6.6E+05	5.5 U	5.5 U
Total Xylenes	µg/kg	--	2.8E+05	--	2.8E+05	17 U	17 U
Trans-1,2-Dichloroethene	µg/kg	--	7.0E+04	--	7.0E+04	5.5 U	5.5 U
Trans-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	5.5 U	5.5 U
Trichloroethene (TCE)	µg/kg	--	5.3E+01	5.3E+01	1.6E+04	5.5 U	5.5 U
Trichlorofluoromethane (Freon-11)	µg/kg	--	3.9E+05	--	3.9E+05	5.5 U	5.5 U
Vinyl Chloride	µg/kg	--	7.9E+01	7.9E+01	3.9E+04	5.5 U	5.5 U
Semivolatile Organic Compounds (SVOCs)							
1,2,4-Trichlorobenzene	µg/kg	--	6.5E+05	--	6.5E+05	610 U	550 U
1,2-Dichlorobenzene	µg/kg	--	3.7E+05	--	1.1E+06	610 U	550 U
1,3-Dichlorobenzene	µg/kg	--	1.6E+04	--	1.6E+04	610 U	550 U
1,4-Dichlorobenzene	µg/kg	--	3.5E+03	3.5E+03	4.8E+05	610 U	550 U
2,2'-Oxybis(1-chloropropane)	µg/kg	--	2.9E+03	2.9E+03	9.5E+05	610 U	550 U
2,4,5-Trichlorophenol	µg/kg	--	6.1E+06	--	6.1E+06	610 U	550 U
2,4,6-Trichlorophenol	µg/kg	--	6.1E+03	7.0E+03	6.1E+03	610 U	550 U
2,4-Dichlorophenol	µg/kg	--	1.8E+05	--	1.8E+05	610 U	550 U
2,4-Dimethylphenol	µg/kg	--	1.2E+06	--	1.2E+06	610 U	550 U
2,4-Dinitrophenol	µg/kg	--	1.2E+05	--	1.2E+05	3000 U	2700 U

Table 14. Analytical Results, PRL-475

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL475-HA1 1.5'-2.5' bgs LJ105	PRL475-HA2 1.5'-3.0' bgs LJ106
SVOCs, Continued							
2,4-Dinitrotoluene	µg/kg	--	1.2E+05	--	1.2E+05	610 U	550 U
2,6-Dinitrotoluene	µg/kg	--	6.1E+04	--	6.1E+04	610 U	550 U
2-Chloronaphthalene	µg/kg	--	4.9E+06	--	4.9E+06	610 U	550 U
2-Chlorophenol	µg/kg	--	6.3E+04	--	6.3E+04	610 U	550 U
2-Methylphenol	µg/kg	--	3.1E+06	--	3.1E+06	610 U	550 U
2-Nitroaniline	µg/kg	--	1.8E+03	--	1.8E+03	3000 U	2700 U
2-Nitrophenol	µg/kg	--	--	--	--	610 U	550 U
3,3'-Dichlorobenzidine	µg/kg	--	1.1E+03	1.1E+03	--	1200 U	1100 U
3/4-methylphenol	µg/kg	--	3.1E+05	--	3.1E+05	610 U	550 U
3-Nitroaniline	µg/kg	--	--	--	--	3000 U	2700 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	3000 U	2700 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	--	610 UJ	550 UJ
4-Chloro-3-Methylphenol	µg/kg	--	--	--	--	610 U	550 U
4-Chloroaniline	µg/kg	--	2.4E+05	--	2.4E+05	1200 U	1100 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	--	610 U	550 U
4-Nitroaniline	µg/kg	--	--	--	--	3000 U	2700 U
4-Nitrophenol	µg/kg	--	--	--	--	3000 U	2700 U
bis(2-chlorethoxy)methane	µg/kg	--	--	--	--	610 U	550 U
bis(2-chloroethyl)ether	µg/kg	--	2.1E+02	2.1E+02	--	610 U	550 U
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	3.5E+04	1.2E+06	610 U	550 U
Butylbenzylphthalate	µg/kg	--	1.2E+07	--	1.2E+07	610 U	550 U
Carbazole	µg/kg	--	2.4E+04	2.4E+04	--	610 U	550 U
Dibenzofuran	µg/kg	--	2.9E+05	--	2.9E+05	610 U	550 U
Diethylphthalate	µg/kg	--	4.9E+07	--	4.9E+07	610 U	550 U
Dimethylphthalate	µg/kg	--	1.0E+08	--	6.1E+08	610 U	550 U
Di-n-butylphthalate	µg/kg	--	--	--	--	610 U	550 U
Di-n-octylphthalate	µg/kg	--	2.4E+06	--	2.4E+06	610 U	550 U
Hexachlorobenzene	µg/kg	--	3.0E+02	3.0E+02	4.9E+04	610 U	550 U
Hexachlorobutadiene	µg/kg	--	6.2E+03	6.2E+03	1.8E+04	610 U	550 U
Hexachlorocyclopentadiene	µg/kg	--	3.7E+05	--	3.7E+05	3000 UJ	2700 UJ
Hexachloroethane	µg/kg	--	3.5E+04	3.5E+04	6.1E+04	610 U	550 U
Isophorone	µg/kg	--	5.1E+05	5.1E+05	1.2E+07	610 U	550 U
Nitrobenzene	µg/kg	--	2.0E+04	--	2.0E+04	610 U	550 U
n-Nitrosodi-n-propylamine	µg/kg	--	7.0E+01	7.0E+01	--	610 U	550 U
n-Nitroso-diphenylamine	µg/kg	--	9.9E+04	9.9E+04	--	3000 U	2700 U
Pentachlorophenol	µg/kg	--	3.0E+03	3.0E+03	1.4E+06	2100 U	1900 U
Phenol	µg/kg	--	3.7E+07	--	3.7E+07	610 U	550 U
Polynuclear Aromatic Hydrocarbons (PAHs)							
2-Methylnaphthalene	µg/kg	--	--	--	--	30 U	27 U
Acenaphthene	µg/kg	--	3.7E+06	--	3.7E+06	30 U	27 U
Acenaphthylene	µg/kg	--	--	--	--	30 U	27 U
Anthracene	µg/kg	--	2.2E+07	--	2.2E+07	30 U	27 U
Benzo(a)anthracene	µg/kg	--	6.2E+02	6.2E+02	--	30 UJ	27 UJ
Benzo(a)pyrene	µg/kg	--	6.2E+01	6.2E+01	--	30 U	27 U
Benzo(b)fluoranthene	µg/kg	--	6.2E+02	6.2E+02	--	30 U	27 U
Benzo(g,h,i)perylene	µg/kg	--	--	--	--	30 U	27 U
Benzo(k)fluoranthene	µg/kg	--	3.8E+02	3.8E+02	--	30 U	27 U
Chrysene	µg/kg	--	3.8E+03	3.8E+03	--	30 UJ	27 UJ
Dibenz(a,h)anthracene	µg/kg	--	6.2E+01	6.2E+01	--	30 U	27 U
Fluoranthene	µg/kg	--	2.3E+06	--	2.3E+06	30 U	27 U
Fluorene	µg/kg	--	2.8E+06	--	2.8E+06	30 U	27 U
Indeno(1,2,3-cd)pyrene	µg/kg	--	6.2E+02	6.2E+02	--	30 U	27 U
Naphthalene	µg/kg	--	5.6E+04	--	5.6E+04	30 U	27 U
Phenanthrene	µg/kg	--	--	--	--	30 UJ	27 UJ
Pyrene	µg/kg	--	2.3E+06	--	2.3E+06	30 U	27 U

Table 14. Analytical Results, PRL-475

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL475-HA1 1.5'-2.5' bgs LJ105	PRL475-HA2 1.5'-3.0' bgs LJ106
Hydrocarbons							
Motor Oils	mg/kg	--	--	--	--	12 U	11 U
Total Extractable Petroleum Hydrocarbons	mg/kg	--	--	--	--	12 U	11 U
Total Volatile Petroleum Hydrocarbons	mg/kg	--	--	--	--	12 U	11 U
Metals							
Aluminum	mg/kg	14800	7.6E+04	--	7.6E+04	23100	9350
Antimony	mg/kg	3.06	3.1E+01	--	3.1E+01	15 U	13 U
Arsenic	mg/kg	6.86	3.9E-01	3.9E-01	2.2E+01	4.8 J	3.7 J
Barium	mg/kg	173	5.4E+03	--	5.4E+03	229	90.3
Beryllium	mg/kg	0.669	1.5E+02	1.1E+03	1.5E+02	0.98 U	0.87 U
Cadmium	mg/kg	2.35	1.7E+00	1.7E+00	1.7E+00	0.6 UJ	0.44 UJ
Calcium	mg/kg	46000	--	--	--	7490	3220
Chromium	mg/kg	26.9	2.1E+02	2.1E+02	--	20.8	10.4
Cobalt	mg/kg	6.98	9.0E+02	9.0E+02	1.4E+03	9.4	4.9
Copper	mg/kg	6.41	3.1E+03	--	3.1E+03	13.6	6
Iron	mg/kg	18400	2.4E+04	--	2.4E+04	24600 J	12000 J
Lead	mg/kg	15.1	1.5E+02	--	--	5.5	3.6
Magnesium	mg/kg	8370	--	--	--	10100 J	3830 J
Manganese	mg/kg	291	1.8E+03	--	1.8E+03	339	193
Mercury	mg/kg	0.22	2.4E+01	--	2.4E+01	0.2	0.049
Nickel	mg/kg	15.3	1.6E+03	--	1.6E+03	13.5	7.2
Potassium	mg/kg	4890	--	--	--	5300 J	2370 J
Selenium	mg/kg	0.32	3.9E+02	--	3.9E+02	1.5 U	0.39 UJ
Silver	mg/kg	0.539	3.9E+02	--	3.9E+02	2.4 U	2.2 U
Sodium	mg/kg	405	--	--	--	32.6 UJ	440 U
Thallium	mg/kg	0.42	5.2E+00	--	5.2E+00	2 U	1.7 U
Vanadium	mg/kg	71.8	5.5E+02	--	5.5E+02	54	27.1
Zinc	mg/kg	77.9	2.4E+04	--	2.4E+04	65.7	34.3
pH							
pH	pH Units	--	--	--	--	7.94	8.22

Notes:

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

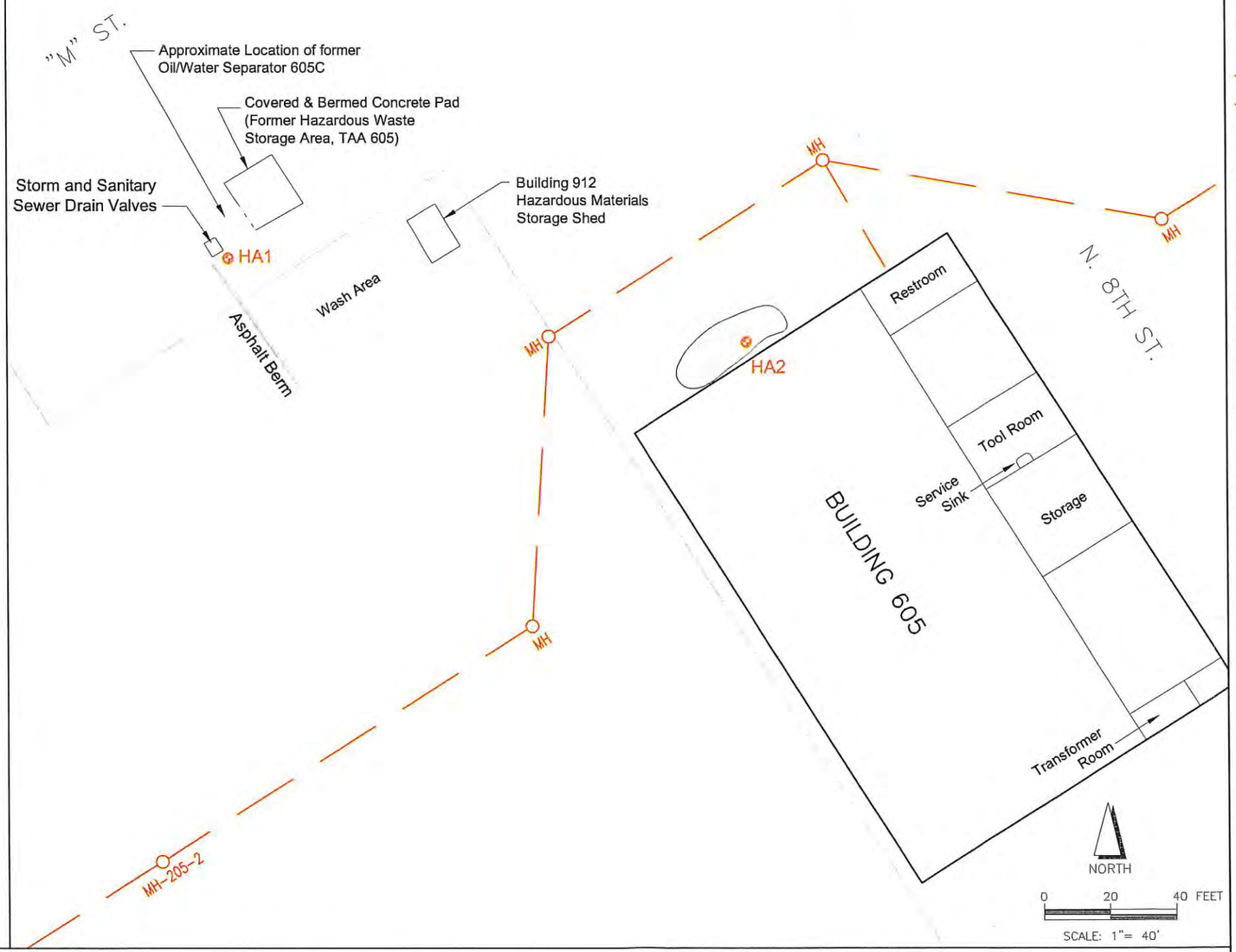
J = The concentration is an estimate

PRL 605

Front of Building (Facing East)

Wash Area with Asphalt Berm
Location of Soil Sample Borehole HA1
(Facing North)

Northeast Corner of Hanger
(Facing South)



LEGEND:

- Edge of Road
- HA3 — Hand Auger Soil Sample Location
- Sewer Line
- MH — Sewer Line Manhole
- Sink
- Staining

Background:
The building was constructed in 1965 and identified as a maintenance hanger in 1973.
Seven locations of concern (LOCs) are associated with this site. OWS 605C (SWMU/AOC 151 was removed; the site was closed by the Orange County Health Care Agency (OCHCA). PCB T081 was a transformer that was replaced; no further action (NFA) was recommended. RFA 150 was recommended for NFA; the BCT concurred through acceptance of the 1995 Environmental Baseline Survey (EBS). RFA 267 was recommended for NFA; the California Department of Toxic Substances Control (DTSC) concurred. TAA 605 (SWMU/AOC149) is inactive; NFA has been recommended. UST 605A was removed; the site was closed by the California Regional Water Quality Control Board (RWQCB), Santa Ana Region. UST 605B was removed; the site was closed by OCHCA.

Sampling and Analysis Summary:
Potential contamination may be associated with the wash area drain and the area of stained asphalt and hydrocarbon odor along the exterior north wall of the building. Two soil samples were collected from two locations (HA1 at a depth range of 0.5'-1.5' bgs, and HA2 at a depth range of 1.0'-2.0'). Soil samples from both locations were analyzed for VOCs, SVOCs, TPH, and metals.

Analytical Results:
One analyte exceeded its residential preliminary remediation goal (PRG). Arsenic (29.8 mg/kg) was detected in soil sample HA2. TPH, as motor oils, extractables, and volatiles, was detected at maximum concentrations of 11 mg/kg (estimated)(HA2), 47 mg/kg (HA2), and 0.03 mg/kg (estimated)(HA2), respectively.

Risk Screening:
The maximum concentration detected for each analyte from all samples collected at the site was used as the exposure point concentration and compared to EPA Region 9 PRGs to calculate the cumulative risk ratios. The cancer and noncancer risk ratios were 76.44 (8E-5) and 1.41, respectively. Arsenic was the primary risk driver in both cases. The concentration of arsenic is of the same order of magnitude as background concentrations. Based on this, and the absence of any co-contaminants, it is very likely that site activities did not contribute to the arsenic concentration evidenced (see table for summary), but are due to background concentrations.

Conclusion:
Further evaluation is required in accordance with EPA and DTSC letters dated April 11, 2003.

Source:
Aerial Survey, OHM/SWDIV, 1997
Borehole Location Survey, Cal Vada, 2003

Building interior and exterior locations and details are approximate.

Risk Screening Results - Comparison to EPA Region 9 Residential PRGs and MCAS El Toro Background Values

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Cancer Risk Screening Value	Noncancer Risk Screening Value	Site-Wide Maximum Value	Site-Wide Maximum Location	Risk Ratio Cancer	Risk Ratio Noncancer
Volatile Organic Compounds (VOCs)								
Acetone	µg/kg	--	--	1.6E+06	46	HA1@0.5'-1.5'	--	<0.01
Methylene Chloride	µg/kg	--	9.1E+03	2.0E+06	1	HA1@0.5'-1.5'	<0.01	<0.01
Metals								
Arsenic	mg/kg	6.86	3.9E-01	2.2E+01	**29.8**	HA2@1.0'-2.0'	76.41	1.38
Cobalt	mg/kg	6.98	9.0E+02	1.4E+03	30.7	HA2@1.0'-2.0'	0.03	0.02
Copper	mg/kg	6.41	--	3.1E+03	12.6	HA2@1.0'-2.0'	--	<0.01
				Cumulative Risk Ratio:			76.44	1.41

Notes: -- indicates the specified criteria does not exist. Bold indicates concentration above MCAS El Toro Background value or PRG value, whichever is higher.

Technical Memorandum — Final

Sampling and Analysis Results/Risk Screening
PRL 605

Environmental Baseline Survey

Date: 08-03	Former MCAS El Toro	Figure
Project No. 54506	EARTH TECH — A tyco INTERNATIONAL LTD. COMPANY	15

File: M:\Projects\54506_(CTO-104)\EBS\CAD\Phase1_Investigation\Transferrable_PRLs\Tech Sheets\Final\PRL605_F.dwg Time: Aug 18, 2003 - 9:35am

Table 15. Analytical Results, PRL-605

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL605-HA2 1.0'-2.0' bgs LJ111	PRL605-HA1 0.5'-1.5' bgs LJ112	PRL605-HA2 (dup) 1.0'-2.0' bgs LJ114
Volatile Organic Compounds (VOCs)								
1,1,1,2-Tetrachloroethane	µg/kg	--	3.2E+03	3.2E+03	5.2E+05	4.5 U	5.1 U	4.8 U
1,1,1-Trichloroethane	µg/kg	--	1.2E+06	--	2.0E+06	4.5 U	5.1 U	4.8 U
1,1,2,2-Tetrachloroethane	µg/kg	--	4.1E+02	4.1E+02	1.0E+06	4.5 U	5.1 U	4.8 U
1,1,2-Trichloroethane	µg/kg	--	7.3E+02	7.3E+02	3.6E+04	4.5 U	5.1 U	4.8 U
1,1,2-Trichlorotrifluoroethane	µg/kg	--	5.6E+06	--	2.1E+07	4.5 UJ	5.1 UJ	4.8 UJ
1,1-Dichloroethane	µg/kg	--	5.1E+05	--	5.1E+05	4.5 U	5.1 U	4.8 U
1,1-Dichloroethene	µg/kg	--	1.2E+05	--	1.2E+05	4.5 U	5.1 U	4.8 U
1,2-Dichloroethane	µg/kg	--	2.8E+02	2.8E+02	8.5E+03	4.5 U	5.1 U	4.8 U
1,2-Dichloropropane	µg/kg	--	3.4E+02	3.4E+02	6.0E+03	4.5 U	5.1 U	4.8 U
1,2-Dichlorotetrafluoroethane	µg/kg	--	--	--	--	4.5 UJ	5.1 UJ	4.8 UJ
2-Butanone	µg/kg	--	7.3E+06	--	7.3E+06	91 U	100 U	97 U
2-Hexanone	µg/kg	--	--	--	--	45 UJ	51 UJ	48 UJ
4-Methyl-2-pentanone	µg/kg	--	7.9E+05	--	7.9E+05	45 UJ	51 UJ	48 UJ
Acetone	µg/kg	--	1.6E+06	--	1.6E+06	91 U	46 J	97 U
Benzene	µg/kg	--	6.0E+02	6.0E+02	7.1E+03	4.5 U	5.1 U	4.8 U
Bromodichloromethane	µg/kg	--	8.2E+02	8.2E+02	2.2E+05	4.5 U	5.1 U	4.8 U
Bromoform	µg/kg	--	6.2E+04	6.2E+04	1.2E+06	4.5 U	5.1 U	4.8 U
Bromomethane	µg/kg	--	3.9E+03	--	3.9E+03	4.5 U	5.1 U	4.8 U
Carbon Disulfide	µg/kg	--	3.6E+05	--	3.6E+05	4.5 U	5.1 U	4.8 U
Carbon Tetrachloride	µg/kg	--	2.5E+02	2.5E+02	2.2E+03	4.5 UJ	5.1 UJ	4.8 UJ
Chlorobenzene	µg/kg	--	1.5E+05	--	1.5E+05	4.5 U	5.1 U	4.8 U
Chloroethane	µg/kg	--	3.0E+03	3.0E+03	5.0E+06	4.5 U	5.1 U	4.8 U
Chloroform	µg/kg	--	9.4E+02	9.4E+02	3.6E+03	4.5 U	5.1 U	4.8 U
Chloromethane	µg/kg	--	1.2E+03	1.2E+03	--	4.5 U	5.1 U	4.8 U
cis-1,2-Dichloroethene	µg/kg	--	4.3E+04	--	4.3E+04	4.5 U	5.1 U	4.8 U
cis-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	4.5 U	5.1 U	4.8 U
Dibromochloromethane	µg/kg	--	1.1E+03	1.1E+03	3.8E+05	4.5 U	5.1 U	4.8 U
Dichlorodifluoromethane (Freon-12)	µg/kg	--	9.4E+04	--	9.4E+04	4.5 U	5.1 U	4.8 U
Di-isopropyl Ether (DIPE)	µg/kg	--	--	--	--	4.5 UJ	5.1 UJ	4.8 UJ
Ethyl tertiary butyl ether	µg/kg	--	--	--	--	4.5 U	5.1 U	4.8 U
Ethylbenzene	µg/kg	--	8.9E+03	8.9E+03	1.9E+06	4.5 U	5.1 U	4.8 U
Methylene Chloride	µg/kg	--	9.1E+03	9.1E+03	2.0E+06	4.5 U	1 J	4.8 U
Methyl-tert butyl ether (MTBE)	µg/kg	--	1.7E+04	1.7E+04	5.8E+06	4.5 U	5.1 U	4.8 U
Styrene	µg/kg	--	1.7E+06	--	4.4E+06	4.5 U	5.1 U	4.8 U
Tertiary amyl methyl ether	µg/kg	--	--	--	--	4.5 U	5.1 U	4.8 U
Tertiary Butyl Alcohol	µg/kg	--	--	--	--	18 UJ	20 UJ	19 UJ
Tetrachloroethene (PCE)	µg/kg	--	1.5E+03	1.5E+03	3.6E+05	4.5 U	5.1 U	4.8 U
Toluene	µg/kg	--	5.2E+05	--	6.6E+05	4.5 U	5.1 U	4.8 U
Total Xylenes	µg/kg	--	2.8E+05	--	2.8E+05	14 U	15 UJ	15 U
Trans-1,2-Dichloroethene	µg/kg	--	7.0E+04	--	7.0E+04	4.5 UJ	5.1 UJ	4.8 UJ
Trans-1,3-Dichloropropene	µg/kg	--	7.8E+02	7.8E+02	1.6E+04	4.5 U	5.1 U	4.8 U
Trichloroethene (TCE)	µg/kg	--	5.3E+01	5.3E+01	1.6E+04	4.5 U	5.1 U	4.8 U
Trichlorofluoromethane (Freon-11)	µg/kg	--	3.9E+05	--	3.9E+05	4.5 U	5.1 U	4.8 U
Vinyl Chloride	µg/kg	--	7.9E+01	7.9E+01	3.9E+04	4.5 U	5.1 U	4.8 U
Semivolatile Organic Compounds (SVOCs)								
1,2,4-Trichlorobenzene	µg/kg	--	6.5E+05	--	6.5E+05	560 U	580 U	580 U
1,2-Dichlorobenzene	µg/kg	--	3.7E+05	--	1.1E+06	560 U	580 U	580 U
1,3-Dichlorobenzene	µg/kg	--	1.6E+04	--	1.6E+04	560 U	580 U	580 U
1,4-Dichlorobenzene	µg/kg	--	3.5E+03	3.5E+03	4.8E+05	560 U	580 U	580 U
2,2'-Oxybis(1-chloropropane)	µg/kg	--	2.9E+03	2.9E+03	9.5E+05	560 U	580 U	580 U
2,4,5-Trichlorophenol	µg/kg	--	6.1E+06	--	6.1E+06	560 U	580 U	580 U
2,4,6-Trichlorophenol	µg/kg	--	6.1E+03	7.0E+03	6.1E+03	560 U	580 U	580 U
2,4-Dichlorophenol	µg/kg	--	1.8E+05	--	1.8E+05	560 U	580 U	580 U
2,4-Dimethylphenol	µg/kg	--	1.2E+06	--	1.2E+06	560 U	580 U	580 U
2,4-Dinitrophenol	µg/kg	--	1.2E+05	--	1.2E+05	2800 U	2900 U	2900 U

Table 15. Analytical Results, PRL-605

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL605-HA2 1.0'-2.0' bgs LJ111	PRL605-HA1 0.5'-1.5' bgs LJ112	PRL605-HA2 (dup) 1.0'-2.0' bgs LJ114
SVOCs, Continued								
2,4-Dinitrotoluene	µg/kg	--	1.2E+05	--	1.2E+05	560 U	580 U	580 U
2,6-Dinitrotoluene	µg/kg	--	6.1E+04	--	6.1E+04	560 U	580 U	580 U
2-Chloronaphthalene	µg/kg	--	4.9E+06	--	4.9E+06	560 U	580 U	580 U
2-Chlorophenol	µg/kg	--	6.3E+04	--	6.3E+04	560 U	580 U	580 U
2-Methylphenol	µg/kg	--	3.1E+06	--	3.1E+06	560 U	580 U	580 U
2-Nitroaniline	µg/kg	--	1.8E+03	--	1.8E+03	2800 U	2900 U	2900 U
2-Nitrophenol	µg/kg	--	--	--	--	560 U	580 U	580 U
3,3'-Dichlorobenzidine	µg/kg	--	1.1E+03	1.1E+03	--	1100 U	1200 U	1200 U
3/4-methylphenol	µg/kg	--	3.1E+05	--	3.1E+05	560 U	580 U	580 U
3-Nitroaniline	µg/kg	--	--	--	--	2800 U	2900 U	2900 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	2800 U	2900 U	2900 U
4-Bromophenyl-phenylether	µg/kg	--	--	--	--	560 UJ	580 UJ	580 UJ
4-Chloro-3-Methylphenol	µg/kg	--	--	--	--	560 U	580 U	580 U
4-Chloroaniline	µg/kg	--	2.4E+05	--	2.4E+05	1100 U	1200 U	1200 U
4-Chlorophenyl-phenyl ether	µg/kg	--	--	--	--	560 U	580 U	580 U
4-Nitroaniline	µg/kg	--	--	--	--	2800 U	2900 U	2900 U
4-Nitrophenol	µg/kg	--	--	--	--	2800 UJ	2900 UJ	2900 UJ
bis(2-chlorethoxy)methane	µg/kg	--	--	--	--	560 U	580 U	580 U
bis(2-chloroethyl)ether	µg/kg	--	2.1E+02	2.1E+02	--	560 U	580 U	580 U
bis(2-ethylhexyl)phthalate	µg/kg	--	3.5E+04	3.5E+04	1.2E+06	560 U	580 U	580 U
Butylbenzylphthalate	µg/kg	--	1.2E+07	--	1.2E+07	560 U	580 U	580 U
Carbazole	µg/kg	--	2.4E+04	2.4E+04	--	560 U	580 U	580 U
Dibenzofuran	µg/kg	--	2.9E+05	--	2.9E+05	560 U	580 U	580 U
Diethylphthalate	µg/kg	--	4.9E+07	--	4.9E+07	560 U	580 U	580 U
Dimethylphthalate	µg/kg	--	1.0E+08	--	6.1E+08	560 U	580 U	580 U
Di-n-butylphthalate	µg/kg	--	--	--	--	560 U	580 U	580 U
Di-n-octylphthalate	µg/kg	--	2.4E+06	--	2.4E+06	560 U	580 U	580 U
Hexachlorobenzene	µg/kg	--	3.0E+02	3.0E+02	4.9E+04	560 U	580 U	580 U
Hexachlorobutadiene	µg/kg	--	6.2E+03	6.2E+03	1.8E+04	560 U	580 U	580 U
Hexachlorocyclopentadiene	µg/kg	--	3.7E+05	--	3.7E+05	2800 U	2900 U	2900 U
Hexachloroethane	µg/kg	--	3.5E+04	3.5E+04	6.1E+04	560 U	580 U	580 U
Isophorone	µg/kg	--	5.1E+05	5.1E+05	1.2E+07	560 U	580 U	580 U
Nitrobenzene	µg/kg	--	2.0E+04	--	2.0E+04	560 U	580 U	580 U
n-Nitrosodi-n-propylamine	µg/kg	--	7.0E+01	7.0E+01	--	560 U	580 U	580 U
n-Nitroso-diphenylamine	µg/kg	--	9.9E+04	9.9E+04	--	2800 U	2900 U	2900 U
Pentachlorophenol	µg/kg	--	3.0E+03	3.0E+03	1.4E+06	1900 U	2000 U	2000 U
Phenol	µg/kg	--	3.7E+07	--	3.7E+07	560 U	580 U	580 U
Hydrocarbons								
Motor Oils	mg/kg	--	--	--	--	5 J	12 U	11 J
Total Extractable Petroleum Hydrocarbons	mg/kg	--	--	--	--	11 U	47	12 U
Total Volatile Petroleum Hydrocarbons	mg/kg	--	--	--	--	10 U	0.03 J	9.2 U
Metals								
Aluminum	mg/kg	14800	7.6E+04	--	7.6E+04	8920	12600	10400
Antimony	mg/kg	3.06	3.1E+01	--	3.1E+01	13 U	14 U	14 U
Arsenic	mg/kg	6.86	3.9E-01	3.9E-01	2.2E+01	29.8	3.6	7
Barium	mg/kg	173	5.4E+03	--	5.4E+03	78.9	158	136
Beryllium	mg/kg	0.669	1.5E+02	1.1E+03	1.5E+02	0.89 UJ	0.93 UJ	0.033 UJ
Cadmium	mg/kg	2.35	1.7E+00	1.7E+00	1.7E+00	0.3 UJ	0.16 UJ	0.35
Calcium	mg/kg	46000	--	--	--	3390	3450	7530
Chromium	mg/kg	26.9	2.1E+02	2.1E+02	--	24.2	12.2	12.1
Cobalt	mg/kg	6.98	9.0E+02	9.0E+02	1.4E+03	30.7	8.2	9.6
Copper	mg/kg	6.41	3.1E+03	--	3.1E+03	12.6	6.8	6.7
Iron	mg/kg	18400	2.4E+04	--	2.4E+04	15400 J	17700 J	14800 J
Lead	mg/kg	15.1	1.5E+02	--	--	8.9	3.2	5.6
Magnesium	mg/kg	8370	--	--	--	4950 J	6630 J	5680 J

Table 15. Analytical Results, PRL-605

Analyte	Units	MCAS El Toro Background Value (95th quantile)	Residential Soil PRG	Residential Cancer Risk Screening Value	Residential Noncancer Risk Screening Value	PRL605-HA2 1.0'-2.0' bgs LJ111	PRL605-HA1 0.5'-1.5' bgs LJ112	PRL605-HA2 (dup) 1.0'-2.0' bgs LJ114
Metals, Continued								
Manganese	mg/kg	291	1.8E+03	--	1.8E+03	208 J	221 J	223 J
Mercury	mg/kg	0.22	2.4E+01	--	2.4E+01	0.014	0.026	0.025
Nickel	mg/kg	15.3	1.6E+03	--	1.6E+03	11.6	6.7	7.7
Potassium	mg/kg	4890	--	--	--	3120 J	4650 J	3110 J
Selenium	mg/kg	0.32	3.9E+02	--	3.9E+02	1.3 U	1.2 UJ	1.4 U
Silver	mg/kg	0.539	3.9E+02	--	3.9E+02	2.2 U	2.3 U	2.3 U
Sodium	mg/kg	405	--	--	--	450 U	470 U	460 U
Thallium	mg/kg	0.42	5.2E+00	--	5.2E+00	1.8 UJ	1.9 UJ	1.8 UJ
Vanadium	mg/kg	71.8	5.5E+02	--	5.5E+02	33.4	38.6	32.6
Zinc	mg/kg	77.9	2.4E+04	--	2.4E+04	42.4	52.6	43.4
pH								
pH	pH Units	--	--	--	--	8.74	7.17	8.88

Notes:

µg/kg = micrograms per kilogram

mg/kg = miligrams per kilogram

-- = The regulatory threshold does not exist for the specified analyte.

U = The analyte was not detected above the detection limit shown.

J = The concentration is an estimate

PRL 606