The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	DW001 / 29.5-30.5 2004-06-21 SOIL A4F220155002 µg/Kg	VE525 / 02.3-2.9 2004-06-17 SOIL A4F180238003 µg/Kg	VE525 / 07.35-07.9 2004-06-17 SOIL A4F180238004 µg/Kg	VE525 / 08.8-09.0 2004-06-17 SOIL A4F180238005 µg/Kg	VE525 / 10-11 2004-06-17 QDUPSOIL A4F180238009 µg/Kg	VE525 / 10-11 2004-06-17 SOIL A4F180238006 µg/Kg	VE525 / 15.4-15.7 2004-06-17 SOIL A4F180238008 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
1,1,1-TRICHLOROETHANE	< 4.6	< 5.5	110 J	< 980	< 480	< 280uj	< 5.7uj
1,1,2,2-TETRACHLOROETHANE	< 4.6	< 5.5	1400	240 J	< 480	< 280uj	< 5.7uj
1,1,2-TRICHLOROETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
1,1-DICHLOROETHANE	< 4.6	< 5.5	51 J	< 980	< 480	54 Jj	< 5.7uj
1,1-DICHLOROETHENE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
1,2,3-TRICHLOROPROPANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
1,2-DIBROMO-3-CHLOROPROPANE	< 9.2	< 11	< 430	< 2000	< 960	< 560uj	< 11uj
1,2-DIBROMOETHANE (EDB)	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
1,2-DICHLOROETHANE	< 4.6	2.4 J	3000	6300	14000	8000 j	3.6 Jj
1,2-DICHLOROETHENE (TOTAL)	< 9.2	< 11	1200	< 2000	240 J	130 Jj	< 11uj
1,2-DICHLOROPROPANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
1,4-DIOXANE	< 230	< 280	< 11000	< 49000	< 24000	< 14000uj	62 Jj
2-BUTANONE (MEK)	< 18	< 22	< 870	< 3900	< 1900	< 1100uj	< 23uj
2-HEXANONE	< 18	< 22	< 870	< 3900	< 1900	< 1100uj	< 23uj
3-CHLORO-1-PROPENE	< 9.2	< 11	< 430	< 2000	< 960	< 560uj	< 11uj
4-METHYL-2-PENTANONE (MIBK)	< 18	< 22	< 870	< 3900	< 1900	< 1100uj	< 23uj
ACETONE	11 J B	7.6 J	< 870	< 3900	< 1900	< 1100uj	8.3 Jj
ACETONITRILE	< 92	< 110	< 4300	< 20000	< 9600	< 5600uj	8.3 Jj
ACROLEIN	< 92	< 110	< 4300	< 20000	< 9600	< 5600uj	< 110uj
ACRYLONITRILE	< 92	< 110	< 4300	< 20000	< 9600	< 5600uj	< 110uj
BENZENE	< 4.6	< 5.5	680	430 J	510	210 Jj	< 5.7uj
BROMODICHLOROMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
BROMOFORM	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
BROMOMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
CARBON DISULFIDE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
CARBON TETRACHLORIDE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
CHLOROBENZENE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
CHLOROETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
CHLOROFORM	< 4.6	5.6	920	19000	1500	970 j	9 j
CHLOROMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
CHLOROPRENE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
CIS-1,2-DICHLOROETHENE	< 4.6	< 5.5	930	< 980	240 J	130 Jj	< 5.7uj
CIS-1,3-DICHLOROPROPENE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
DIBROMOCHLOROMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
DIBROMOMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
DICHLORODIFLUOROMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
ETHYL METHACRYLATE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
ETHYLBENZENE	< 4.6	< 5.5	29 J	< 980	< 480	< 280uj	< 5.7uj
IODOMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
ISOBUTANOL	< 180	< 220	< 8700	< 39000	< 19000	< 11000uj	< 230uj
METHACRYLONITRILE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
METHYL METHACRYLATE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
METHYLENE CHLORIDE	1.3 J	7.8 Bu	170 J Bu	3500 Bu	< 480	210 J Buj	18 Buj
PROPIONITRILE	< 18	< 22	< 870	< 3900	< 1900	< 1100uj	< 23uj
STYRENE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
TETRACHLOROETHENE	< 4.6	< 5.5	200 J	< 980	< 480	< 280uj	< 5.7uj
TOLUENE	< 4.6	< 5.5	110 J	< 980	< 480	< 280uj	< 5.7uj
TRANS-1,2-DICHLOROETHENE	< 4.6	< 5.5	240	< 980	< 480	< 280uj	< 5.7uj
TRANS-1,3-DICHLOROPROPENE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
TRANS-1,4-DICHLORO-2-BUTENE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
TRICHLOROETHENE	< 4.6	< 5.5	4000	3000	840	110 Jj	< 5.7uj
TRICHLOROFLUOROMETHANE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
VINYL ACETATE	< 9.2	< 11	< 430	< 2000	< 960	< 560uj	< 11uj
VINYL CHLORIDE	< 4.6	< 5.5	< 220	< 980	< 480	< 280uj	< 5.7uj
XYLENES (TOTAL)	< 9.2	< 11	< 430	< 2000	< 960	< 560uj	< 11uj

Blank Cell=Not Analyzed
See data validation memo for definitions of data qualifiers
VOCs = Volatile Organic Compounds (Update III Method)
QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/Kg = micrograms per kilogram

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EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	VE525 / 19-20 2004-06-17 SOIL A4F180238011 µg/Kg	VE525 / 29-30 2004-06-17 SOIL A4F180238012 µg/Kg	VE525 / 36-37 2004-06-17 SOIL A4F180238013 µg/Kg	VE525 / 39-40 2004-06-17 SOIL A4F180238016 µg/Kg	VE525 / 49-50 2004-06-17 SOIL A4F180238017 µg/Kg	VE525 / 55-56 2004-06-17 SOIL A4F180238019 µg/Kg	VE526 / 06.5-07.5 2004-06-16 SOIL A4F170167001 µg/Kg	VE526 / 11-12 2004-06-16 QDUPSOIL A4F170167008 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,1,1-TRICHLOROETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,1,2,2-TETRACHLOROETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	81 J	< 5.2uj
1,1,2-TRICHLOROETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,1-DICHLOROETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	23 J	< 5.2uj
1,1-DICHLOROETHENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,2,3-TRICHLOROPROPANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,2-DIBROMO-3-CHLOROPROPANE	< 10uj	< 9.6	< 9.5	< 8.4	< 9.3	< 10uj	< 520	< 10uj
1,2-DIBROMOETHANE (EDB)	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,2-DICHLOROETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,2-DICHLOROETHENE (TOTAL)	< 10uj	< 9.6	< 9.5	< 8.4	< 9.3	< 10uj	< 520	< 10uj
1,2-DICHLOROPROPANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
1,4-DIOXANE	< 260uj	< 240	< 240	< 210	< 230	< 250uj	< 13000	540 j
2-BUTANONE (MEK)	< 20uj	< 19	< 19	< 17	< 19	< 20uj	< 1000	< 21uj
2-HEXANONE	< 20uj	< 19	< 19	< 17	< 19	< 20uj	< 1000	< 21uj
3-CHLORO-1-PROPENE	< 10uj	< 9.6	< 9.5	< 8.4	< 9.3	< 10uj	< 520	< 10uj
4-METHYL-2-PENTANONE (MIBK)	< 20uj	< 19	< 19	< 17	< 19	< 20uj	< 1000	< 21uj
ACETONE	6.7 Jj	< 19	< 19	5.8 J	< 19	6.8 Jj	< 1000	8.3 Jj
ACETONITRILE	< 100uj	< 96	< 95	< 84	< 93	< 100uj	< 5200	8 Jj
ACROLEIN	< 100uj	< 96	< 95	< 84	< 93	< 100uj	< 5200	< 100uj
ACRYLONITRILE	< 100uj	< 96	< 95	< 84	< 93	< 100uj	< 5200	< 100uj
BENZENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	39 J	< 5.2uj
BROMODICHLOROMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
BROMOFORM	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
BROMOMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CARBON DISULFIDE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CARBON TETRACHLORIDE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CHLOROBENZENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CHLOROETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CHLOROFORM	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	48 J	< 5.2uj
CHLOROMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CHLOROPRENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CIS-1,2-DICHLOROETHENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
CIS-1,3-DICHLOROPROPENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
DIBROMOCHLOROMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
DIBROMOMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
DICHLORODIFLUOROMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
ETHYL METHACRYLATE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
ETHYLBENZENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
IODOMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
ISOBUTANOL	< 200uj	< 190	< 190	< 170	< 190	< 200uj	< 10000	< 210uj
METHACRYLONITRILE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
METHYL METHACRYLATE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
METHYLENE CHLORIDE	5.2 Buj	3.9 J Bu	3 J Bu	3.5 J Bu	2.4 J Bu	3.6 J Buj	290 B	4 J Bj
PROPIONITRILE	< 20uj	< 19	< 19	< 17	< 19	< 20uj	< 1000	< 21uj
STYRENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
TETRACHLOROETHENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
TOLUENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
TRANS-1,2-DICHLOROETHENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
TRANS-1,3-DICHLOROPROPENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
TRANS-1,4-DICHLORO-2-BUTENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
TRICHLOROETHENE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	860	< 5.2uj
TRICHLOROFLUOROMETHANE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
VINYL ACETATE	< 10uj	< 9.6	< 9.5	< 8.4	< 9.3	< 10uj	< 520	< 10uj
VINYL CHLORIDE	< 5.1uj	< 4.8	< 4.8	< 4.2	< 4.6	< 5.1uj	< 260	< 5.2uj
XYLENES (TOTAL)	< 10uj	< 9.6	< 9.5	< 8.4	< 9.3	< 10uj	< 520	< 10uj

Blank Cell=Not Analyzed
See data validation memo for definitions of data qualifiers
VOCs = Volatile Organic Compounds (Update III Method)
QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/Kg = micrograms per kilogram

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TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	VE526 / 11-12 2004-06-16 SOIL A4F170167004 µg/Kg	VE526 / 14.5-15.5 2004-06-16 SOIL A4F170167005 µg/Kg	VE526 / 16-17 2004-06-16 SOIL A4F170167006 µg/Kg	VE526 / 26-27 2004-06-16 SOIL A4F170167009 µg/Kg	VE526 / 36-37 2004-06-16 SOIL A4F170167010 µg/Kg	VE526 / 41.5-41.8 2004-06-16 SOIL A4F170167012 µg/Kg	VE526 / 46-47 2004-06-16 SOIL A4F170167014 µg/Kg	VE527 / 02.1-02.7 2004-06-14 SOIL A4F150251001 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,1,1-TRICHLOROETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,1,2,2-TETRACHLOROETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,1,2-TRICHLOROETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,1-DICHLOROETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	93 J
1,1-DICHLOROETHENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,2,3-TRICHLOROPROPANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,2-DIBROMO-3-CHLOROPROPANE	< 11	< 9.6uj	< 11	< 9	< 9.1	< 9.3	< 7.9	< 670
1,2-DIBROMOETHANE (EDB)	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,2-DICHLOROETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,2-DICHLOROETHENE (TOTAL)	< 11	< 9.6uj	< 11	< 9	< 9.1	< 9.3	< 7.9	260 J
1,2-DICHLOROPROPANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
1,4-DIOXANE	710	89 Jj	< 270	< 230	< 230	< 230	< 200	< 17000
2-BUTANONE (MEK)	< 22	< 19uj	< 21	< 18	< 18	< 19	< 16	< 1300
2-HEXANONE	< 22	< 19uj	< 21	< 18	< 18	< 19	< 16	< 1300
3-CHLORO-1-PROPENE	< 11	< 9.6uj	< 11	< 9	< 9.1	< 9.3	< 7.9	< 670
4-METHYL-2-PENTANONE (MIBK)	< 22	< 19uj	< 21	< 18	< 18	< 19	< 16	< 1300
ACETONE	6.2 J	6 Jj	8.5 J	< 18	< 18	< 19	5.6 J	< 1300
ACETONITRILE	< 110	8.2 Jj	< 110	< 90	< 91	< 93	< 79	< 6700
ACROLEIN	< 110	< 96uj	< 110	< 90	< 91	< 93	< 79	< 6700
ACRYLONITRILE	< 110	< 96uj	< 110	< 90	< 91	< 93	< 79	< 6700
BENZENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	870
BROMODICHLOROMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
BROMOFORM	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
BROMOMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CARBON DISULFIDE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CARBON TETRACHLORIDE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CHLOROBENZENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CHLOROETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CHLOROFORM	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CHLOROMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CHLOROPRENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
CIS-1,2-DICHLOROETHENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	170 J
CIS-1,3-DICHLOROPROPENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
DIBROMOCHLOROMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
DIBROMOMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
DICHLORODIFLUOROMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
ETHYL METHACRYLATE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
ETHYLBENZENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
IODOMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
ISOBUTANOL	< 220	< 190uj	< 210	< 180	< 180	< 190	< 160	< 13000
METHACRYLONITRILE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
METHYL METHACRYLATE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
METHYLENE CHLORIDE	4.6 J B	4.4 J Bj	3.7 J B	3 J B	2.3 J B	2.6 J B	3.4 J B	350
PROPIONITRILE	< 22	< 19uj	< 21	< 18	< 18	< 19	< 16	< 1300
STYRENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
TETRACHLOROETHENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
TOLUENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
TRANS-1,2-DICHLOROETHENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	84 J
TRANS-1,3-DICHLOROPROPENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
TRANS-1,4-DICHLORO-2-BUTENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
TRICHLOROETHENE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
TRICHLOROFLUOROMETHANE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
VINYL ACETATE	< 11	< 9.6uj	< 11	< 9	< 9.1	< 9.3	< 7.9	< 670
VINYL CHLORIDE	< 5.5	< 4.8uj	< 5.3	< 4.5	< 4.6	< 4.7	< 3.9	< 330
XYLENES (TOTAL)	< 11	< 9.6uj	< 11	< 9	< 9.1	< 9.3	< 7.9	< 670

Blank Cell=Not Analyzed
See data validation memo for definitions of data qualifiers
VOCs = Volatile Organic Compounds (Update III Method)
QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/Kg = micrograms per kilogram

The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	VE527 / 07.3-08.5 2004-06-14 SOIL A4F150251003 µg/Kg	VE527 / 12.5-13.5 2004-06-14 SOIL A4F150251004 µg/Kg	VE527 / 27-28 2004-06-14 SOIL A4F150251006 µg/Kg	VE527 / 37-38 2004-06-14 SOIL A4F150251007 µg/Kg	VE527 / 47-48 2004-06-14 SOIL A4F150251008 µg/Kg	VE527 / 53.5-54.5 2004-06-14 SOIL A4F150251009 µg/Kg	VE527 / 56.5-57.5 2004-06-14 SOIL A4F150251011 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,1,1-TRICHLOROETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,1,2,2-TETRACHLOROETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,1,2-TRICHLOROETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,1-DICHLOROETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,1-DICHLOROETHENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,2,3-TRICHLOROPROPANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,2-DIBROMO-3-CHLOROPROPANE	< 13 U	< 10 U	< 10 U	< 9.6 U	< 8.6 U	< 9.7 U	< 9.2 U
1,2-DIBROMOETHANE (EDB)	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,2-DICHLOROETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,2-DICHLOROETHENE (TOTAL)	< 13 U	< 10 U	< 10 U	< 9.6 U	< 8.6 U	< 9.7 U	< 9.2 U
1,2-DICHLOROPROPANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
1,4-DIOXANE	300 J	< 260 U	< 250 U	< 240 U	< 220 U	< 240 U	< 230 U
2-BUTANONE (MEK)	< 25 U	< 21 U	< 20 U	< 19 U	< 17 U	< 19 U	< 18 U
2-HEXANONE	< 25 U	< 21 U	< 20 U	< 19 U	< 17 U	< 19 U	< 18 U
3-CHLORO-1-PROPENE	< 13 U	< 10 U	< 10 U	< 9.6 U	< 8.6 U	< 9.7 U	< 9.2 U
4-METHYL-2-PENTANONE (MIBK)	< 25 U	< 21 U	< 20 U	< 19 U	< 17 U	< 19 U	< 18 U
ACETONE	7.4 J	22	< 20 U	< 19 U	10 J	6.2 J	33
ACETONITRILE	< 130 U	8.9 J	< 100 U	< 96 U	< 86 U	< 97 U	< 92 U
ACROLEIN	< 130 U	< 100 U	< 100 U	< 96 U	< 86 U	< 97 U	< 92 U
ACRYLONITRILE	< 130 U	< 100 U	< 100 U	< 96 U	< 86 U	< 97 U	< 92 U
BENZENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
BROMODICHLOROMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
BROMOFORM	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
BROMOMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CARBON DISULFIDE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CARBON TETRACHLORIDE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CHLOROBENZENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CHLOROETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CHLOROFORM	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CHLOROMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CHLOROPRENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CIS-1,2-DICHLOROETHENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
CIS-1,3-DICHLOROPROPENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
DIBROMOCHLOROMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
DIBROMOMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
DICHLORODIFLUOROMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
ETHYL METHACRYLATE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
ETHYLBENZENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
IODOMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
ISOBUTANOL	< 250 U	< 210 U	< 200 U	< 190 U	< 170 U	< 190 U	< 180 U
METHACRYLONITRILE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
METHYL METHACRYLATE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
METHYLENE CHLORIDE	3.8 J B	4.6 J B	2.5 J B	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
PROPIONITRILE	< 25 U	< 21 U	< 20 U	< 19 U	< 17 U	< 19 U	< 18 U
STYRENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
TETRACHLOROETHENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
TOLUENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
TRANS-1,2-DICHLOROETHENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
TRANS-1,3-DICHLOROPROPENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
TRANS-1,4-DICHLORO-2-BUTENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
TRICHLOROETHENE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
TRICHLOROFLUOROMETHANE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
VINYL ACETATE	< 13 U	< 10 U	< 10 U	< 9.6 U	< 8.6 U	< 9.7 U	< 9.2 U
VINYL CHLORIDE	< 6.3 U	< 5.2 U	< 5 U	< 4.8 U	< 4.3 U	< 4.8 U	< 4.6 U
XYLENES (TOTAL)	< 13 U	< 10 U	< 10 U	< 9.6 U	< 8.6 U	< 9.7 U	< 9.2 U

Blank Cell=Not Analyzed
See data validation memo for definitions of data qualifiers
VOCs = Volatile Organic Compounds (Update III Method)
QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/Kg = micrograms per kilogram

The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	VE528 / 13-14.5 2004-06-11 SOIL A4F120153003 µg/Kg	VE528 / 22-23 2004-06-11 SOIL A4F120153004 µg/Kg	VE528 / 34-35 2004-06-11 SOIL A4F120158002 µg/Kg	VE528 / 44-45 2004-06-11 SOIL A4F120158003 µg/Kg	VE528 / 54-55 2004-06-11 SOIL A4F120158005 µg/Kg	VE528 / 56.7-57.4 2004-06-11 SOIL A4F120158007 µg/Kg	VE528 / 58-58.5 2004-06-11 SOIL A4F120158008 µg/Kg	VE528 / 64-65 2004-06-11 SOIL A4F120158009 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,1,1-TRICHLOROETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,1,2,2-TETRACHLOROETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,1,2-TRICHLOROETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,1-DICHLOROETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,1-DICHLOROETHENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,2,3-TRICHLOROPROPANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,2-DIBROMO-3-CHLOROPROPANE	< 12	< 12	< 9.4	< 9.5	< 10	< 13	< 12	< 9.9
1,2-DIBROMOETHANE (EDB)	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,2-DICHLOROETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,2-DICHLOROETHENE (TOTAL)	< 12	< 12	< 9.4	< 9.5	< 10	< 13	< 12	< 9.9
1,2-DICHLOROPROPANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
1,4-DIOXANE	< 290	< 310	< 240	< 240	< 260	< 320	< 310	< 250
2-BUTANONE (MEK)	< 23	< 24	< 19	< 19	1.5 J	3.8 J	< 24	< 20
2-HEXANONE	< 23	< 24	< 19	< 19	< 20	< 25	< 24	< 20
3-CHLORO-1-PROPENE	< 12	< 12	< 9.4	< 9.5	< 10	< 13	< 12	< 9.9
4-METHYL-2-PENTANONE (MIBK)	< 23	< 24	< 19	< 19	< 20	< 25	< 24	< 20
ACETONE	< 23	10 J	< 19	< 19	8.8 J	12 J	< 24	6 J
ACETONITRILE	< 120	< 120	< 94	< 95	< 100	< 130	< 120	< 99
ACROLEIN	< 120	< 120	< 94	< 95	< 100	< 130	< 120	< 99
ACRYLONITRILE	< 120	< 120	< 94	< 95	< 100	< 130	< 120	< 99
BENZENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	0.59 J	< 6.1	< 5
BROMODICHLOROMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
BROMOFORM	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
BROMOMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CARBON DISULFIDE	< 5.8	2.3 J	< 4.7	< 4.8	1.6 J	2 J	< 6.1	< 5
CARBON TETRACHLORIDE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CHLOROBENZENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CHLOROETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CHLOROFORM	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CHLOROMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CHLOROPRENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CIS-1,2-DICHLOROETHENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
CIS-1,3-DICHLOROPROPENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
DIBROMOCHLOROMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
DIBROMOMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
DICHLORODIFLUOROMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
ETHYL METHACRYLATE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
ETHYLBENZENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
IODOMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
ISOBUTANOL	< 230	< 240	< 190	< 190	< 200	< 250	< 240	< 200
METHACRYLONITRILE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
METHYL METHACRYLATE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
METHYLENE CHLORIDE	< 5.8	4.5 J Bu	< 4.7	2.3 J B	< 5.1	< 6.3	5.5 J B	2.7 J B
PROPIONITRILE	< 23	< 24	< 19	< 19	< 20	< 25	< 24	< 20
STYRENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
TETRACHLOROETHENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
TOLUENE	< 5.8	< 6.1	< 4.7	< 4.8	0.7 J	1.1 J	< 6.1	< 5
TRANS-1,2-DICHLOROETHENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
TRANS-1,3-DICHLOROPROPENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
TRANS-1,4-DICHLORO-2-BUTENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
TRICHLOROETHENE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
TRICHLOROFLUOROMETHANE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
VINYL ACETATE	< 12	< 12	< 9.4	< 9.5	< 10	< 13	< 12	< 9.9
VINYL CHLORIDE	< 5.8	< 6.1	< 4.7	< 4.8	< 5.1	< 6.3	< 6.1	< 5
XYLENES (TOTAL)	< 12	< 12	< 9.4	< 9.5	< 10	< 13	< 12	< 9.9

Blank Cell=Not Analyzed
See data validation memo for definitions of data qualifiers
VOCs = Volatile Organic Compounds (Update III Method)
QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/Kg = micrograms per kilogram

The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	VE528 / 66.5-67.5 2004-06-11 SOIL A4F120158010 µg/Kg	VE528 / 8-9.5 2004-06-11 SOIL A4F120153001 µg/Kg	VE529 / 04.7-06.2 2004-06-15 SOIL A4F160218001 µg/Kg	VE529 / 10-11 2004-06-15 SOIL A4F160218004 µg/Kg	VE529 / 16.5-17.5 2004-06-15 SOIL A4F160218005 µg/Kg	VE529 / 17.5-18.5 2004-06-15 SOIL A4F160218006 µg/Kg	VE529 / 17.5-18.5 2004-06-15 SOILRERAN A4F160218006 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,1,1-TRICHLOROETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,1,2,2-TETRACHLOROETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,1,2-TRICHLOROETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,1-DICHLOROETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,1-DICHLOROETHENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,2,3-TRICHLOROPROPANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,2-DIBROMO-3-CHLOROPROPANE	< 13	< 12	< 16	< 11	< 11uj	< 11	< 11
1,2-DIBROMOETHANE (EDB)	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,2-DICHLOROETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,2-DICHLOROETHENE (TOTAL)	< 13	< 12	< 16	< 11	< 11uj	< 11	< 11
1,2-DICHLOROPROPANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
1,4-DIOXANE	< 310	< 290	< 400	< 270	< 270uj	< 270	< 270
2-BUTANONE (MEK)	< 25	< 23	< 32	< 22	< 21uj	< 21	< 21
2-HEXANONE	< 25	< 23	< 32	< 22	< 21uj	< 21	< 21
3-CHLORO-1-PROPENE	< 13	< 12	< 16	< 11	< 11uj	< 11	< 11
4-METHYL-2-PENTANONE (MIBK)	< 25	< 23	< 32	< 22	< 21uj	< 21	< 21
ACETONE	8.6 J	< 23	< 32	< 22	9.8 Jj	< 21	< 21
ACETONITRILE	< 130	< 120	< 160	< 110	< 110uj	< 110	< 110
ACROLEIN	< 130	< 120	< 160	< 110	< 110uj	< 110	< 110
ACRYLONITRILE	< 130	< 120	< 160	< 110	< 110uj	< 110	< 110
BENZENE	0.46 J	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
BROMODICHLOROMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
BROMOFORM	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
BROMOMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CARBON DISULFIDE	2.5 J	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CARBON TETRACHLORIDE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CHLOROBENZENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CHLOROETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CHLOROFORM	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CHLOROMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CHLOROPRENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CIS-1,2-DICHLOROETHENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
CIS-1,3-DICHLOROPROPENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
DIBROMOCHLOROMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
DIBROMOMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
DICHLORODIFLUOROMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
ETHYL METHACRYLATE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
ETHYLBENZENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
IODOMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
ISOBUTANOL	< 250	< 230	< 320	< 220	< 210uj	< 210	< 210
METHACRYLONITRILE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
METHYL METHACRYLATE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
METHYLENE CHLORIDE	6.6 B	< 5.8	4.4 J B	2.4 J B	4.3 J Bj	3.7 J B	2.5 J B
PROPIONITRILE	< 25	< 23	< 32	< 22	< 21uj	< 21	< 21
STYRENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
TETRACHLOROETHENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
TOLUENE	1.2 J	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
TRANS-1,2-DICHLOROETHENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
TRANS-1,3-DICHLOROPROPENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
TRANS-1,4-DICHLORO-2-BUTENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
TRICHLOROETHENE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
TRICHLOROFLUOROMETHANE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
VINYL ACETATE	< 13	< 12	< 16	< 11	< 11uj	< 11	< 11
VINYL CHLORIDE	< 6.3	< 5.8	< 8	< 5.4	< 5.4uj	< 5.4	< 5.4
XYLENES (TOTAL)	< 13	< 12	< 16	< 11	< 11uj	< 11	< 11

Blank Cell=Not Analyzed
See data validation memo for definitions of data qualifiers
VOCs = Volatile Organic Compounds (Update III Method)
QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/Kg = micrograms per kilogram

The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	VE529 / 27.5-28.5 2004-06-15 SOIL A4F160218008 µg/Kg	VE529 / 37.5-38.5 2004-06-15 SOIL A4F160218009 µg/Kg	VE529 / 47.5-48.5 2004-06-15 SOIL A4F160218011 µg/Kg	VE530 / 05-06.5 2004-06-09 SOIL A4F100149002 µg/Kg	VE530 / 09-11 2004-06-09 SOIL A4F100149004 µg/Kg	VE530 / 13-15 2004-06-09 SOIL A4F100149006 µg/Kg	VE530 / 26-28 2004-06-09 SOIL A4F100149008 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,1,1-TRICHLOROETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,1,2,2-TETRACHLOROETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,1,2-TRICHLOROETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,1-DICHLOROETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,1-DICHLOROETHENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,2,3-TRICHLOROPROPANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,2-DIBROMO-3-CHLOROPROPANE	< 11	< 10	< 8.4	< 11	< 11	< 12	< 12
1,2-DIBROMOETHANE (EDB)	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,2-DICHLOROETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,2-DICHLOROETHENE (TOTAL)	< 11	< 10	< 8.4	< 11	< 11	< 12	< 12
1,2-DICHLOROPROPANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
1,4-DIOXANE	< 260	< 260	< 210	< 280	< 270	< 300	< 300
2-BUTANONE (MEK)	< 21	< 21	< 17	< 22	< 21	< 24	< 24
2-HEXANONE	< 21	< 21	< 17	< 22	< 21	< 24	< 24
3-CHLORO-1-PROPENE	< 11	< 10	< 8.4	< 11	< 11	< 12	< 12
4-METHYL-2-PENTANONE (MIBK)	< 21	< 21	< 17	< 22	< 21	< 24	< 24
ACETONE	< 21	8.5 J	< 17	< 22	8.5 J	7.9 J	< 24
ACETONITRILE	< 110	< 100	< 84	< 110	< 110	< 120	< 120
ACROLEIN	< 110	< 100	< 84	< 110	< 110	< 120	< 120
ACRYLONITRILE	< 110	< 100	< 84	< 110	< 110	< 120	< 120
BENZENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
BROMODICHLOROMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
BROMOFORM	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
BROMOMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CARBON DISULFIDE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CARBON TETRACHLORIDE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CHLOROBENZENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CHLOROETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CHLOROFORM	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CHLOROMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CHLOROPRENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CIS-1,2-DICHLOROETHENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
CIS-1,3-DICHLOROPROPENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
DIBROMOCHLOROMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
DIBROMOMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
DICHLORODIFLUOROMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
ETHYL METHACRYLATE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
ETHYLBENZENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
IODOMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
ISOBUTANOL	< 210	< 210	< 170	< 220	< 210	< 240	< 240
METHACRYLONITRILE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
METHYL METHACRYLATE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
METHYLENE CHLORIDE	3.2 J B	3.4 J B	2.3 J B	< 5.6	2.8 J B	3.2 J B	< 6
PROPIONITRILE	< 21	< 21	< 17	< 22	< 21	< 24	< 24
STYRENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
TETRACHLOROETHENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
TOLUENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
TRANS-1,2-DICHLOROETHENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
TRANS-1,3-DICHLOROPROPENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
TRANS-1,4-DICHLORO-2-BUTENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
TRICHLOROETHENE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
TRICHLOROFLUOROMETHANE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
VINYL ACETATE	< 11	< 10	< 8.4	< 11	< 11	< 12	< 12
VINYL CHLORIDE	< 5.3	< 5.2	< 4.2	< 5.6	< 5.3	< 6	< 6
XYLENES (TOTAL)	< 11	< 10	< 8.4	< 11	< 11	< 12	< 12

Blank Cell=Not Analyzed
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QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/Kg = micrograms per kilogram

The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 13: Off-Facility Soil VOC Results (June 2004)

ANALYTE	VE530 / 34-36 2004-06-09 SOIL A4F100149010 µg/Kg	VE530 / 41.5-43.5 2004-06-09 SOIL A4F100149012 µg/Kg	VE530 / 47-49 2004-06-09 SOIL A4F100149014 µg/Kg
1,1,1,2-TETRACHLOROETHANE	< 8.2	< 7.4	< 5.8
1,1,1-TRICHLOROETHANE	< 8.2	< 7.4	< 5.8
1,1,2,2-TETRACHLOROETHANE	< 8.2	< 7.4	< 5.8
1,1,2-TRICHLOROETHANE	< 8.2	< 7.4	< 5.8
1,1-DICHLOROETHANE	< 8.2	< 7.4	< 5.8
1,1-DICHLOROETHENE	< 8.2	< 7.4	< 5.8
1,2,3-TRICHLOROPROPANE	< 8.2	< 7.4	< 5.8
1,2-DIBROMO-3-CHLOROPROPANE	< 16	< 15	< 12
1,2-DIBROMOETHANE (EDB)	< 8.2	< 7.4	< 5.8
1,2-DICHLOROETHANE	< 8.2	< 7.4	< 5.8
1,2-DICHLOROETHENE (TOTAL)	< 16	< 15	< 12
1,2-DICHLOROPROPANE	< 8.2	< 7.4	< 5.8
1,4-DIOXANE	< 410	< 370	< 290
2-BUTANONE (MEK)	< 33	< 29	< 23
2-HEXANONE	< 33	< 29	< 23
3-CHLORO-1-PROPENE	< 16	< 15	< 12
4-METHYL-2-PENTANONE (MIBK)	< 33	< 29	< 23
ACETONE	11 J	< 29	7.9 J B
ACETONITRILE	< 160	< 150	< 120
ACROLEIN	< 160	< 150	< 120
ACRYLONITRILE	< 160	< 150	< 120
BENZENE	< 8.2	< 7.4	< 5.8
BROMODICHLOROMETHANE	< 8.2	< 7.4	< 5.8
BROMOFORM	< 8.2	< 7.4	< 5.8
BROMOMETHANE	< 8.2	< 7.4	< 5.8
CARBON DISULFIDE	< 8.2	< 7.4	< 5.8
CARBON TETRACHLORIDE	< 8.2	< 7.4	< 5.8
CHLOROBENZENE	< 8.2	< 7.4	< 5.8
CHLOROETHANE	< 8.2	< 7.4	< 5.8
CHLOROFORM	< 8.2	< 7.4	< 5.8
CHLOROMETHANE	< 8.2	< 7.4	< 5.8
CHLOROPRENE	< 8.2	< 7.4	< 5.8
CIS-1,2-DICHLOROETHENE	< 8.2	< 7.4	< 5.8
CIS-1,3-DICHLOROPROPENE	< 8.2	< 7.4	< 5.8
DIBROMOCHLOROMETHANE	< 8.2	< 7.4	< 5.8
DIBROMOMETHANE	< 8.2	< 7.4	< 5.8
DICHLORODIFLUOROMETHANE	< 8.2	< 7.4	< 5.8
ETHYL METHACRYLATE	< 8.2	< 7.4	< 5.8
ETHYLBENZENE	< 8.2	< 7.4	< 5.8
IODOMETHANE	< 8.2	< 7.4	< 5.8
ISOBUTANOL	< 330	< 290	< 230
METHACRYLONITRILE	< 8.2	< 7.4	< 5.8
METHYL METHACRYLATE	< 8.2	< 7.4	< 5.8
METHYLENE CHLORIDE	4.4 J B	< 7.4	< 5.8
PROPIONITRILE	< 33	< 29	< 23
STYRENE	< 8.2	< 7.4	< 5.8
TETRACHLOROETHENE	< 8.2	< 7.4	< 5.8
TOLUENE	< 8.2	< 7.4	< 5.8
TRANS-1,2-DICHLOROETHENE	< 8.2	< 7.4	< 5.8
TRANS-1,3-DICHLOROPROPENE	< 8.2	< 7.4	< 5.8
TRANS-1,4-DICHLORO-2-BUTENE	< 8.2	< 7.4	< 5.8
TRICHLOROETHENE	< 8.2	< 7.4	< 5.8
TRICHLOROFLUOROMETHANE	< 8.2	< 7.4	< 5.8
VINYL ACETATE	< 16	< 15	< 12
VINYL CHLORIDE	< 8.2	< 7.4	< 5.8
XYLENES (TOTAL)	< 16	< 15	< 12

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