

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1938

**Client:** Saxton Falls Sand and Gravel Co. Inc.

**Analytical Method:** SW8270E

| Parameter                   | Spike             | Sample Result            | Result                | Units | Rec | Rec Qual | RPD | RPD Qual         | Low               | Limits High | RPD |
|-----------------------------|-------------------|--------------------------|-----------------------|-------|-----|----------|-----|------------------|-------------------|-------------|-----|
| <b>Lab Sample ID:</b>       | <b>Q1937-05MS</b> | <b>Client Sample ID:</b> | <b>LARGE-PILE-CMS</b> |       |     |          |     | <b>DataFile:</b> | <b>BM050101.D</b> |             |     |
| Benzaldehyde                | 1800              | 0                        | 850                   | ug/Kg | 47  |          |     |                  | 20 (10)           | 160 (86)    |     |
| Phenol                      | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 20 (67)           | 160 (126)   |     |
| bis(2-Chloroethyl)ether     | 1800              | 0                        | 1400                  | ug/Kg | 78  |          |     |                  | 70 (54)           | 130 (125)   |     |
| 2-Chlorophenol              | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (79)           | 130 (107)   |     |
| 2-Methylphenol              | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (66)           | 130 (122)   |     |
| 2,2-oxybis(1-Chloropropane) | 1800              | 0                        | 1400                  | ug/Kg | 78  |          |     |                  | 70 (65)           | 130 (110)   |     |
| Acetophenone                | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (75)           | 130 (111)   |     |
| 3+4-Methylphenols           | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 20 (66)           | 160 (104)   |     |
| N-Nitroso-di-n-propylamine  | 1800              | 0                        | 1400                  | ug/Kg | 78  |          |     |                  | 70 (59)           | 130 (119)   |     |
| Hexachloroethane            | 1800              | 0                        | 1400                  | ug/Kg | 78  |          |     |                  | 20 (65)           | 160 (117)   |     |
| Nitrobenzene                | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (70)           | 130 (119)   |     |
| Isophorone                  | 1800              | 0                        | 1400                  | ug/Kg | 78  |          |     |                  | 70 (76)           | 130 (122)   |     |
| 2-Nitrophenol               | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (54)           | 130 (145)   |     |
| 2,4-Dimethylphenol          | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (44)           | 130 (135)   |     |
| bis(2-Chloroethoxy)methane  | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (68)           | 130 (112)   |     |
| 2,4-Dichlorophenol          | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (72)           | 130 (118)   |     |
| Naphthalene                 | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (72)           | 130 (110)   |     |
| 4-Chloroaniline             | 1800              | 0                        | 610                   | ug/Kg | 34  | *        |     |                  | 70 (10)           | 130 (91)    |     |
| Hexachlorobutadiene         | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (66)           | 130 (114)   |     |
| Caprolactam                 | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 20 (51)           | 160 (134)   |     |
| 4-Chloro-3-methylphenol     | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (57)           | 130 (132)   |     |
| 2-Methylnaphthalene         | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (59)           | 130 (123)   |     |
| Hexachlorocyclopentadiene   | 3500              | 0                        | 3000                  | ug/Kg | 86  |          |     |                  | 20 (10)           | 160 (175)   |     |
| 2,4,6-Trichlorophenol       | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (72)           | 130 (117)   |     |
| 2,4,5-Trichlorophenol       | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (72)           | 130 (117)   |     |
| 1,1-Biphenyl                | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (75)           | 130 (113)   |     |
| 2-Chloronaphthalene         | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (67)           | 130 (118)   |     |
| 2-Nitroaniline              | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (69)           | 130 (127)   |     |
| Dimethylphthalate           | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (70)           | 130 (113)   |     |
| Acenaphthylene              | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (79)           | 130 (118)   |     |
| 2,6-Dinitrotoluene          | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (70)           | 130 (125)   |     |
| 3-Nitroaniline              | 1800              | 0                        | 890                   | ug/Kg | 49  | *        |     |                  | 70 (30)           | 130 (99)    |     |
| Acenaphthene                | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (70)           | 130 (121)   |     |
| 2,4-Dinitrophenol           | 3500              | 0                        | 2900                  | ug/Kg | 83  |          |     |                  | 20 (10)           | 160 (155)   |     |
| 4-Nitrophenol               | 3500              | 0                        | 3100                  | ug/Kg | 89  |          |     |                  | 20 (45)           | 160 (133)   |     |
| Dibenzofuran                | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (72)           | 130 (110)   |     |
| 2,4-Dinitrotoluene          | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (55)           | 130 (128)   |     |
| Diethylphthalate            | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (70)           | 130 (112)   |     |
| 4-Chlorophenyl-phenylether  | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (71)           | 130 (108)   |     |
| Fluorene                    | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (68)           | 130 (116)   |     |
| 4-Nitroaniline              | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (55)           | 130 (120)   |     |
| 4,6-Dinitro-2-methylphenol  | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (10)           | 130 (160)   |     |
| N-Nitrosodiphenylamine      | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (73)           | 130 (118)   |     |
| 4-Bromophenyl-phenylether   | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (65)           | 130 (121)   |     |
| Hexachlorobenzene           | 1800              | 0                        | 1500                  | ug/Kg | 83  |          |     |                  | 70 (67)           | 130 (118)   |     |
| Atrazine                    | 1800              | 0                        | 1600                  | ug/Kg | 89  |          |     |                  | 70 (79)           | 130 (127)   |     |

( ) = LABORATORY INHOUSE LIMIT

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**SDG No.:** Q1938

**Client:** Saxton Falls Sand and Gravel Co. Inc.

**Analytical Method:** SW8270E

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low     | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|---------|----------------|-----|
| Pentachlorophenol          | 3500  | 0                | 3600   | ug/Kg | 103 |             |     |             | 20 (47) | 160 (128)      |     |
| Phenanthrene               | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (52) | 130 (128)      |     |
| Anthracene                 | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (62) | 130 (124)      |     |
| Carbazole                  | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (59) | 130 (119)      |     |
| Di-n-butylphthalate        | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (69) | 130 (118)      |     |
| Fluoranthene               | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (44) | 130 (125)      |     |
| Pyrene                     | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (26) | 130 (142)      |     |
| Butylbenzylphthalate       | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (64) | 130 (126)      |     |
| 3,3-Dichlorobenzidine      | 1800  | 0                | 920    | ug/Kg | 51  | *           |     |             | 70 (33) | 130 (116)      |     |
| Benzo(a)anthracene         | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (71) | 130 (114)      |     |
| Chrysene                   | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (57) | 130 (121)      |     |
| bis(2-Ethylhexyl)phthalate | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (42) | 130 (169)      |     |
| Di-n-octyl phthalate       | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (23) | 130 (175)      |     |
| Benzo(b)fluoranthene       | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (67) | 130 (121)      |     |
| Benzo(k)fluoranthene       | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (57) | 130 (134)      |     |
| Benzo(a)pyrene             | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (70) | 130 (142)      |     |
| Indeno(1,2,3-cd)pyrene     | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (40) | 130 (129)      |     |
| Dibenz(a,h)anthracene      | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (43) | 130 (123)      |     |
| Benzo(g,h,i)perylene       | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (24) | 130 (125)      |     |
| 1,2,4,5-Tetrachlorobenzene | 1800  | 0                | 1600   | ug/Kg | 89  |             |     |             | 70 (69) | 130 (124)      |     |
| 1,4-Dioxane                | 1800  | 0                | 1300   | ug/Kg | 72  |             |     |             | 20 (46) | 160 (112)      |     |
| 2,3,4,6-Tetrachlorophenol  | 1800  | 0                | 1500   | ug/Kg | 83  |             |     |             | 70 (69) | 130 (112)      |     |