

## Sewage Spill Records - 2015

| Date Spill Started | Date Spill Detected | Date Spill Ceased | Location   | Cause  | Volume (m <sup>3</sup> ) | NHDB Notified of the event | Type of Sewage | Action Taken   |
|--------------------|---------------------|-------------------|--|--|--------------------------|----------------------------|----------------|--|
| 12/01/2015         | 12/01/2015          | 12/01/2015        | 16 Tikorangi Place, Morningside                    | Blockage at manhole outlet   | 100.0                    | Yes                        | Raw/screened   | Cleaned up, disinfected, cess pit vacuum loaded  |
| Unknown            | 16/01/2015          | 16/01/2015        | 16 Cockburn Street                                 | Tree root blockage at outlet to downstream manhole, bottle brush and privet over manhole.        | 5.0                      | Yes                        | Raw/unscreened | DHB and NRC informed, manhole outlet cleared, spill cleaned up and disinfected, manhole to be sealed and trees possibly removed.                   |
| 26/02/2015         | 26/02/2015          | 26/02/2015        | 3 Willow Place, Maunu                              | Fatty solids blockage in aerial crossing/manhole.  | 1.0                      | Yes                        | Raw/unscreened | Site disinfected, all parties notified, no further notice required.  |
| 7/03/2015          | 7/03/2015           | 7/03/2015         | Alongside SH1 below Smeatons Access Way, Raumanga. | Partial blockage in downstream line consisting of rag and tree roots.                            | 5.0                      | Yes                        | Raw/unscreened | All parties notified, spill cleaned up and disinfected, further work including heavy clean of line crossing SH1 and re-positioning of manhole lid. |
| 11/03/2015         | 11/03/2015          | 11/03/2015        | Croquet club off Third Avenue.                     | Gravel in line downstream of surcharging manhole.  | 3.0                      | Yes                        | Raw/unscreened | NRC and DHB informed. Downstream siphon manholes checked.  |
| 4/04/2015          | 4/04/2015           | 4/04/2015         | 5 Ashley Avenue Otaika                             | Debris blocking outlet to manhole with sewer surcharging back through illegal storm water drain. | 1.0                      | Yes                        | Raw/unscreened | NRC and DHB notified with no further action requested but will need to remove illegal storm water connection that caused the issue.                |

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| 24/04/2015 | 24/04/2015 | 24/04/2015 | 19 Kahiwi Street Raumanga                      | Downstream manhole outlet partially blocked due to heavy root intrusion.   | 100.0     | Yes | Raw/unscreened         | NRC and DHB notified, blockage cleared, area disinfected, manhole cleared, coss ph vacuumed.   |
| 6/05/2015  | 6/05/2015  | 6/05/2015  | Dickens Inn, Quality Street off Cameron Street | Fatty solids blockage in satellite manhole caused surcharge in Dickens Inn.  | 100.0     | Yes | Raw/unscreened         | NRC and DHB notified, area cleaned and disinfected.  |
| 11/05/2015 | 11/05/2015 | 11/05/2015 | 42 Rewarewa Road                               | Unknown blockage in downstream line. Flows were too great to see what caused the blockage.   | 1.0       | Yes | Raw/unscreened         | All parties notified, Warren King from WDC is investigating the source of cattle effluent.   |
| 23/05/2015 | 23/05/2015 | 23/05/2015 | 4 Paranui Crescent, Kiripaka, Whangarei        | Manhole at top of 4 Paranui Crescent full of roots from willow tree near by. Took a long time to clear due to the nature of root growth. | 10.0      | Yes | Raw/stormwater content | NRC and DHB notified with no further action requested, further clearance work required in manhole and possible removal of willow tree.   |
| 28/05/2015 | 28/05/2015 | 28/05/2015 | 95 Old Onerahi Road                            | Rag blockage at manhole outlet - suspect displaced pipe join.  | 20.0      | Yes | Raw/unscreened         | Heavy clean and CCTV of line scheduled - all parties notified - spill signs to be placed at either end of Waimahanga walking track and Pah Road boat ramp as recommended by the DHB. |
| 7/06/2015  | 7/06/2015  | 7/06/2015  | 93 Old Onerahi Road                            | Appears to be roots in shared private lateral and debris in downstream manhole.  | 1.0       | Yes | Raw/unscreened         | Signs already in place along Waimahanga walkway, area cleaned and disinfected.   |
| 28/06/2015 | 28/06/2015 | 28/06/2015 | Corner Darch Point Road and Reotahi Road       | Technical issue with sewer pump station following unscheduled power outage, re-boot completed.   | 100Litres | Yes | Raw/unscreened         | All parties notified, no further action required around signage - NRC, DHB to investigate why high level alarm not received.   |

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| 5/07/2015  | 5/07/2015  | 5/07/2015  | 24 King Street, Hikurangi                                   | Fatty solids blockage in down stream line.   | 5.0       | Yes | Raw/unscreened | Notified NRC and DHB - No further action requested, spill area washed and disinfected, not expecting people to be swimming in creek at this time of year.             |
| 11/07/2015 | 11/07/2015 | 11/07/2015 | 90 Ritchie Road, Parua Bay                                  | Kingfisher PLC power supply fault resulting in pumps unable to run in auto and loss of high level alarm via telemetry therefore relying on audible alarm and unable to limit upstream flows.                   | 2.0       | Yes | Raw/Unscreened | NRC and DHB notified, spill sign placed at channel on foreshore warning against swimming for 5 days and shellfish gathering for 28 days, oyster farmer also notified. |
| 11/07/2015 | 11/07/2015 | 11/07/2015 | Morningside School, Morningside Road, Whangarei.            | 100mm asbestos cement rising main failed in road at receiving manhole.   | 2.0       | Yes | Raw/unscreened | NRC and DHB notified, failed section of line replaced with PVC.   |
| 25/07/2015 | 25/07/2015 | 25/07/2015 | Corner of Tait Street and McMillan Avenue, Kamo, Whangarei. | Fat and wipes blocking downstream line.  | 100litres | Yes | Raw/unscreened | NRC and DHB notified, spill area washed and disinfected, cess pit vacuum loaded.  |
| 5/08/2015  | 5/08/2015  | 5/08/2015  | 78 Great North Road, Kamo, Whangarei.                       | Flows were slightly elevated with surcharged sewage appearing very dilute.   | 1.0       | Yes | Raw/unscreened | NRC and DHB notified, line to be heavy cleaned and CCTV'd.  |
| 7/08/2015  | 7/08/2015  | 7/08/2015  | 328 Western Hills Drive, Whangarei.                         | Flows slightly diluted with storm water due to rain, sewage spilled from power ducts first indicating possible damage to sewer by third party, sewage in power box caused power failure to several properties. | 1.0       | Yes | Raw/unscreened | NRC and DHB notified, line to be CCTV'd as soon as possible.  |

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| Unknown    | 31/08/2015 | 31/08/2015 | 2 George Street, Hikurangi              | Mild steel section of sewer aerial crossing had failed completely due to excessive corrosion, failure occurred in long grass in bank area so bulk of solids contained.  | 10.0       | Yes | Raw/unscreened         | NRC and DHB notified, aerial to be replaced with stainless steel today, line plugged and sewage vacuum loaded for duration of repair |
| 5/09/2015  | 5/09/2015  | 5/09/2015  | 16 Cockburn Street, Onerahi, Whangarei. | Suspect partial fatty solids blockage in downstream line coupled with high flows due to heavy rain resulting in surcharge from sewer manhole at 16. High flows, evident of high fat concentration in line, spilled to storm water at 18 then out to discharge point at the end of western end of Cockburn street upstream of permanent signage. | 5.0        | Yes | Raw/Stormwater content | Notified DHB and NRC - No further action required, garage contaminated - disinfected.  |
| 21/09/2015 | 21/09/2015 | 21/09/2015 | 222 Maunu Road, Whangarei               | Rag blockage in outlet to downstream manhole  | 100 Litres | Yes | Raw/screened           | NRC and DHB notified, spill site disinfected   |
| 8/10/2015  | 8/10/2015  | 8/10/2015  | 12 Kotuku Street, Maunu, Whangarei.     | Unidentified blockage in downstream line. Low flows due to fine weather, manholes difficult to access due to being bolted shut, as-built drawings not yet received or added to mapping for modified pipe layout.  | 1.0        | Yes | Raw/unscreened         | NRC and DHB notified, spill area cleaned up and disinfected.   |
| 19/10/2015 | 19/10/2015 | 19/10/2015 | End of Raumanga Valley Road, Whangarei  | Gravel in line possibly from construction of new system. Low flows, effluent well screened by long grass and rock filter.   | 1.0        | Yes | Raw/screened           | Both NRC and DHB notified, lines heavy cleaned.  |
| 23/10/2015 | 23/10/2015 | 23/10/2015 | 16 Heretaunga Street Tikipunga          | Fatty solids blockage in downstream line, also baby wipes on flushing head.   | 5m3        | Yes | Raw/screened           | NRC and DHB notified, spill area cleaned and disinfected, cess pit vacuum loaded.  |

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| 25/10/2015 | 25/10/2015 | 25/10/2015 | 2 Raumanga Heights drive Raumanga     | Unknown blockage in downstream line.  | 100Litres | Yes | Raw/screened   | NRC and DHB notified, spill area cleaned and disinfected, cess pit vacuum loaded.  |
| Unknown    | 27/11/2015 | 27/11/2015 | 135 Cameron Street, Whangarei         | Unknown blockage in downstream line between Carruth Street and Robert Street. Nature of spill through storm water line not consistent with large quantity of sewage, indicating the blockage appeared to have been partial until now but was completely blocked at this time, cleared easily with rage on hose but not a lot of rag evident | 1.0       | Yes | Raw/unscreened | Have had previous incident in 2010 at this location so will investigate further with heavy clean and CCTV  |
| 11/12/2015 | 11/12/2015 | 11/12/2015 | Bowling Club, Third Avenue, Whangarei | Unknown blockage in line 2 lines downstream from spill location. Low flows, fine weather, rain expected over weekend.   | 1.0       | Yes | Raw/unscreened | NRC and DHB notified, no further action requested, spill site cleaned and disinfected.   |
| Unknown    | 15/12/2015 | 15/12/2015 | 21 Hedley Place, Raumanga, Whangarei. | PVC manhole channel lifted, resulting in exposed leading edge with rags catching on leading edge causing blockage. Low flow rates but had been flowing for some time, most contamination was contained in wandering dew with remainder of contamination contained in heavily vegetated open drain.  | 20.0      | Yes | Raw/unscreened | NRC and DHB notified with no further action rquested, hydrated lime applied to heavy contamination, mapping to be corrected, manhold channel to be repaired. |