Monitoring locations WM-0049, WM-0118, WO-0087, and WO-0112 show no upward or downward five year trend in tritium concentration. Monitoring locations WB-1001, WM-0103 and WO-0100 show an upward five year trend in tritium concentration. Monitoring locations WC-0002, WC-0008, WM-0039, WM-0055, WM-0056, WM-0073, WM-0089, WM-0098, WM-0110, WM-0113, WM-0114, WM-0115, WM-0124, WM-0128, WO-0084, WO-0085, WO-0086, WO-0088, WO-0094 and WO-0098 show a downward five year trend in tritium concentration. The monitoring location WM-0110 which has historically the highest tritium concentration is currently trending downwards.

Four monitoring locations selected for trending show no evidence of an upward or downward five year trend. Three monitoring locations show an upward tritium concentration trend and twenty monitoring locations show a downward tritium concentration trend for the five year period. The number of wells having upward trends were the same in 2017 (CNS, 2017). The number of sampling locations with downward trends increased since 2017.

TABLE 3-1
LIST OF MONITORING LOCATIONS AND TRENDS
IDENTIFIED IN THE 2018 ANNUAL TRENDING DATA REPORT

SAMPLE POINT	Түре	TREND FOR	5 YEAR TREND	3 YEAR TREND
WB-0401	Boundary well	Water Elevation	Upward	None
WB-0502	Boundary well	Water Elevation	Upward	None
WB-1001	Boundary well	Water Elevation	Upward	None
		Tritium	Upward	Upward
WB-1003	Boundary well	Water Elevation	Upward	None
WC-0002	Creek/Spring	Tritium	Downward	Downward
WC-0008	Creek/Spring	Tritium	Downward	Downward
WM-0039	On-site well	Tritium	Downward	None
WM-0049	On-site well	Tritium	None	None
WM-0055	On-site weil	Tritium	Downward	None
WM-0056	On-site well	Tritium	Downward	Downward
WM-0073	On-site well	Tritium	Downward	None
WM-0089	On-site well	Tritium	Downward	Downward
WM-0098	On-site well	Tritium	Downward	Downward
WM-0103	On-site well	Tritium	Upward	Upward
WM-0110	On-site well	Tritium	Downward	None

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SAMPLE POINT	Түре	TREND FOR	5 YEAR TREND	3 YEAR TREND
WM-0113	On-site well	Tritium	Downward	None
WM-0114	On-site well	Tritium	Downward	Downward
WM-0115	On-site well	Tritium	Downward	Downward
WM-0118	On-site well	Tritium	None	None
WM-0124	Oл-site well	Tritium	Downward	Downward
WM-0128	On-site well	Tritium	Downward	Downward
WO-0084	Off-site well	Tritium	Downward	Downward
WO-0085	Off-site well	Tritium	Downward	Downward
WO-0086	Off-site well	Tritium	Downward	None
WO-0087	Off-site well	Tritium	None	Upward
WO-0088	Off-site well	Tritium	Downward	Downward
WO-0094	Off-site well	Tritium	Downward	None
WO-0098	Off-site well	Tritium	Downward	Downward
WO-0100	Off-site well	Tritium	Upward	Upward
WO-0112	Off-site well	Tritium	None	Downward

NOTE:

Figure 3-1 shows the monitoring locations having five year tritium trending results by colored squares with green for downward trend, blue for no trend and red for upward trend. Monitoring locations having downward trend tend to align from the northeast to the southwest on the western and middle part of the disposal site. Upward and no trend locations are unremarkable.

Other notable recent trends observed in the time series graphs are (See Appendix B):

- Water levels have trended downwards in the last year
- WC-0002 tritium shows a slight increase in the last year
- WC-0008 tritium has been approximately constant in the last year
- WM-0039, WM-0049, WM-0073, WM-0110, and WM-0118 tritium have increased in the last year

and

• WO-0100 has a downward trend in the last three measurements.

[&]quot;None" refers to results showing no evidence of upward trend and no evidence of downward trend.