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

TABLE 3-1
LIST OF MONITORING LOCATIONS AND TRENDS
IDENTIFIED IN THE 2015 ANNUAL TRENDING DATA REPORT

SAMPLE POINT	TYPE	TREND FOR	5 YEAR TREND	3 YEAR TREND
WB-0401	Boundary well	Water Elevation	None	Upward
WB-0502	Boundary well	Water Elevation	None	Upward
WB-1001	Boundary well	Water Elevation	None	Upward
		Tritium	Upward	Upward
WB-1003	Boundary well	Water Elevation	None	Upward
WC-0002	Creek/Spring	Tritium	Downward	Downward
WC-0008	Creek/Spring	Tritium	None	None
WM-0039	On-site well	Tritium	Downward	Downward
WM-0049	On-site well	Tritium	Downward	Downward
WM-0055	On-site well	Tritium	Downward	Downward
WM-0056	On-site well	Tritium	Downward	Downward
WM-0073	On-site well	Tritium	Upward	Upward
WM-0089	On-site well	Tritium	None	None
WM-0098	On-site well	Tritium	Downward	Downward
WM-0103	On-site well	Tritium	Downward	None
WM-0110	On-site well	Tritium	Downward	Downward
WM-0113	On-site well	Tritium	Downward	None
WM-0114	On-site well	Tritium	Downward	Downward

Sample Point	Type	Trend For	5 Year Trend	3 Year Trend
WM-0115	On-site well	Tritium	Upward	None
WM-0118	On-site well	Tritium	Downward	None
WM-0124	On-site well	Tritium	Upward	Upward
WM-0128	On-site well	Tritium	Downward	Downward
WO-0084	Off-site well	Tritium	Downward	None
WO-0085	Off-site well	Tritium	Downward	Downward
WO-0086	Off-site well	Tritium	None	None
WO-0087	Off-site well	Tritium	Downward	Downward
WO-0088	Off-site well	Tritium	Downward	None
WO-0094	Off-site well	Tritium	Downward	Downward
WO-0098	Off-site well	Tritium	Downward	Downward
WO-0100	Off-site well	Tritium	None	Downward
WO-0112	Off-site well	Tritium	Upward	Upward

NOTE:
"None" refers to results showing no evidence of upward trend and no evidence of downward trend.

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 or no trend tend to align from the northeast to the southwest in the western and middle part of the disposal site. Upward trending locations have the same alignment but occur on the southeastern part of the disposal site. The alignment of trends appears to coincide with pathlines shown in CNS, 2011. The upward trending monitoring locations appear to be in areas that have pathlines which may originate from trenches filled in the late 70's and early 80's located in the eastern, and middle portions of the disposal site.

Monitoring locations WM-0103, WM-0113, WM-0115, WM-0118, WO-0084, WO-0088 and WO-0100 shift between having trend and having none or vice versa between five and three year analysis. Monitoring locations WB-1001, WC-0002, WC-0008, WM-0039, WM-0049, WM-0055, WM-0056, WM-0073, WM-0089, WM-0098, WM-0110, WM-0114, WM-0124, WM-0128, WO-0085, WO-0086, WO-0087, WO-0094, WO-0098 and WO-0112 have no change in trends between five and three year.