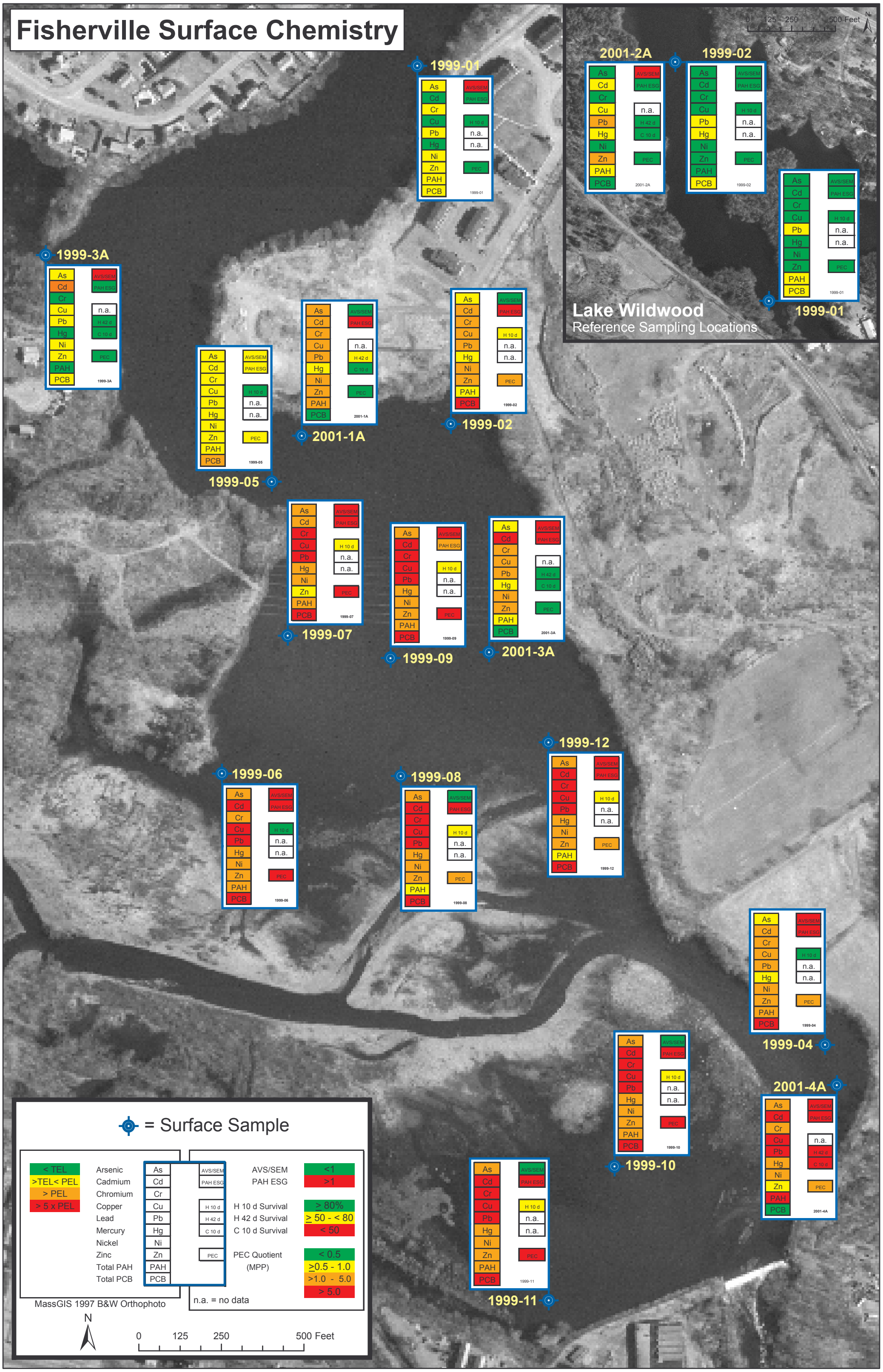Fisherville Surface Chemistry