Noncommunity Public Water Supply Ass	essment Report For
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CHOCOLAY TOWNSHIP COMM CENTER

WSSN: <u>2004252</u>

Source ID: 1

What is SWAS?	WSSN: 2004252 Source ID: 1
The Source Water Assessment Score (SWAS) is a process that factors geologic and water well attributes, water chemistry, and the potential contaminant sources for each drinking water source into a ranking system to determine the relative potential for contamination. Generally, sources with lower scores are considered to be less susceptible to contamination than sources with higher scores. However, exceptions do exist. This assessment is required by the Michigan Source Water Assessment Program (SWAP) under the provisions of the 1996 amendments to the Federal Safe Drinking Water Act.	County:MARQUETTEContactCHOCOLAY TOWNSHIPAddress:5010 US 41 HWY SOCity:MARQUETTEState/Zip:MI49855
Well Log and Location A well log is a legal document describing the well location, construction, depth, soil formations penetrated, and capacity. Drilling contractors have been required to complete a well log and submit it to the owner, local health department, and State since 1967. The lack of information from a well log may increase the SWAS. Wellogic is an electronic database for well log information.	Well Log Available: L Entered in Wellogic: N Wellogic ID Number:
Geologic Sensitivity	Geologic Sensitivity - SWAS(G)
This score represents the degree of natural protection afforded by the materials overlying the water- bearing formation. Lower scores indicate more protection. Points are deducted based on the thickness and type of geologic material that overlies the source of water. Surface contaminants migrate downward	CCM Points Deducted:0CPCM Points Deducted:3
at varying rates dependent upon geological material and thickness. CCM stands for Continuous Confining Material (eg. clay). CPCM stands for Continuous Partially Confining Material (eg. mix of sand and clay). More points are deducted for a thick clay layer than a thick sand layer or a thinner clay layer. Point Range 0-30.	Total SWAS(G) Points:27Geologic Sensitivity Rating:Moderate
Well Construction	Well Construction - SWAS(W)
Points are added when a well lacks features that help protect the water supply from contamination.	Well Grouting Points: 15
Points are added when a well lacks features that help protect the water supply from contamination. These include whether the well was grouted (sealing the annulus that is created between the casing	Well Grouting Points:15Well Age Points:15
Points are added when a well lacks features that help protect the water supply from contamination. These include whether the well was grouted (sealing the annulus that is created between the casing and the soil formations during construction), the well age, how deep the casing extends into the ground, and how much water the well pumps, since larger volumes can pull contaminants from greater	Well Grouting Points:15Well Age Points:15Casing Depth Points:10
Points are added when a well lacks features that help protect the water supply from contamination. These include whether the well was grouted (sealing the annulus that is created between the casing and the soil formations during construction), the well age, how deep the casing extends into the	Well Grouting Points:15Well Age Points:15

Source Water Assessment for: <u>CHOCOLAY TOWNSHIP COMM CENTE</u> WSSN: <u>2004252</u> Well No.: <u>1</u>

Water Chemistry and Isotope Data Points are added if water sample results indicate detectable levels of nitrates or nitrites, volatile organic chemicals (solvents, fuel components), and/or synthetic organic chemicals (pesticides or herbicides). Tritium monitoring is included as a voluntary means of age-dating water. Generally, the older the water, the more protected the source. Point Range 0-50. (50 points = MCL violation) Susceptibility is Very High if contaminants exceed the Maximum Contaminant Level (MCL).	Water Chemistry and Isotope Data - SWAS(C) Nitrates and Nitrites: 10 SOC.VOC: 0 Tritium Results: 0 Total SWAS(C) Points: 10
Isolation from Sources of Contamination Points are added based on the number and type of potential contaminant sources within the isolation distance (75 ft. from standard or 800 ft. from major contaminant sources). Examples of standard sources are septic tanks, sewer lines, and storm drains. Examples of major sources are chemical and fuel storage, landfills, lagoons, and known plumes of groundwater contamination.	Isolation from Contamination - SWAS(S)Major Sources from 75 - 800 ft: $2 \times 10 = 20$ Major Sources within 75 ft: $0 \times 20 = 0$ Standard Sources within 75 ft: $1 \times 10 = 10$ Known Sources within 800 ft: $1 \times 25 = 25$ Total SWAS(S) Points: 55
Source Water Assessment Score (SWAS)	Source Water Assessment Score - SWAS
The total SWAS is factored with the Geologic Sensitivity to determine the overall susceptibility to contamination.	$\frac{27}{50} + \frac{50}{50} + \frac{10}{55} + \frac{55}{50} = \frac{142}{50}$ SWAS(G) SWAS(W) SWAS(C) SWAS(S) SWAS
Susceptibility Determination	Susceptibility Determination
Susceptibility is a means to identify the relative potential of contamination for public water supply sources.	Based on the above compilation of source geology, well construction, water chemistry, and potential contaminant sources, this public drinking water supply is determined to have a Susceptibility Rating of: Very High