**GROUNDWATER, WELLS AND SPRINGS Factor Sheet**

06-11-2019 Wisconsin Department of Transportation

####

|  |  |  |
| --- | --- | --- |
| **Alternative:** | **Preferred: [ ]  Yes [ ]  No [ ]  None identified** | **Project ID:**  |

## Groundwater Protection Elements in Comprehensive Land Use Planning and Transportation

* 1. Is project located in an area that has or is developing a:

|  |  |  |
| --- | --- | --- |
| Groundwater Plans, Programs and Ordinances | Yes\* | No |
| DNR Approved Well Head Protection Plan | [ ]  | [ ]  |
| Groundwater Management Plan | **[ ]**  | **[ ]**  |
| Ordinance to protect wells, aquifers or sensitive groundwater recharge zones | **[ ]**  | **[ ]**  |
| Wisconsin Groundwater Guardian Community Program | **[ ]**  | **[ ]**  |

 \*If yes, explain and describe coordination needs for each category above:

\*Coordination is attached as:

1. Does the proposed alternative conflict with items described in A, above?

 [ ]  No, explain why:

 [ ]  Yes, explain why:

1. Will project location, or likely infrastructure, construction method or stormwater management practices encroach upon or affect protected areas or well locations resulting in non-compliant Plans or wells? Note, there are minimum separation distance requirements for wells, springs, depth to bedrock, and karst features in State Codes (see NR 151, Trans 401, NR 811, NR 812, NR 820)?

 [ ]  No, explain why:

 [ ]  Yes, explain why:

1. Have the local units of Government, businesses or property owners been notified of potential conflicts with items described in A, B or C?

 [ ]  No

 [ ]  Yes, explain:

Coordination is attached as:

1. How will the alternative avoid, minimize or mitigate potential impacts? Briefly describe here and include in Question 23 of the ER and EA Template, Section 5 of the PCE Template or Question XII of the CEC Template:
2. **Identification and Inventory of Wells:**
3. Identify wells located within existing and proposed right of way of the proposed alternative and provide date of well inventory survey:

|  |  |  |
| --- | --- | --- |
| **Well Category** | **# in existing ROW** | **# in proposed ROW** |
| Private potable wells |  |  |
| Municipal high capacity wells |  |  |
| Industrial or agricultural wells |  |  |
| Community shared wells |  |  |
| Groundwater monitoring wells |  |  |
| Free flowing or artesian wells |  |  |
| Other, describe:  |  |  |

 Date of well inventory survey:

 Coordination is attached as:

1. Will the proposed alternative interfere or damage well locations or use? Is there potential for physical damage to the wells, alteration of pumping capacity, or degradation of water quality produced from the wells? Describe:
2. Identify the number and type of wells that will likely need to be filled and sealed and describe how that will be coordinated and who will be responsible to fill and seal the wells per State code:  These must be included in Question 23 of the ER and EA Template, Section 5 of the PCE Template or Question XII of the CEC Template.
3. **Identification and Inventory of Springs:**
	1. Are there known springs in or adjacent to the proposed project limits?

[ ]  None identified

[ ]  Yes, explain how many and describe characteristics and location of springs, include map location if used:

1. Is there a spring critical for an outstanding resource water (ORW), exceptional resource water (ERW), a cold-water fishery (trout stream), a sensitive aquatic habitat, a calcareous fen, a wetland, or other outstanding natural resources or endangered species?

 [ ]  None identified

 [ ]  Yes, how many and explain:

Coordination is attached as:

1. Will the proposed alternative and likely grade changes, stormwater management practices, or construction methods affect a spring location, flow rate, or water chemistry (e.g., blasting, filling, cut-sections, drain pipes, structure placement, driving foundation footings or cofferdams, reducing infiltration to spring, etc)?

 [ ]  No

 [ ]  Yes, explain (temporary and/or permanent effect?):

1. Describe coordination with the DNR, Federal Resource Agencies, Tribal Government(s) and local Government(s) or other interest groups: , coordination is attached as:
2. How will spring impacts be avoided, minimized or mitigated:

 **4.** **Groundwater Flow Conditions, Changes and Potential Impacts:**

1. Are there likely construction dewatering needs?

 [ ]  No

 [ ]  Yes, explain duration of dewatering and likely pumping rates:

1. Will construction dewatering affect known groundwater contamination migration from leaking underground storage tanks or pump islands at gasoline service stations or other contaminated properties?

 [ ]  No

 [ ]  Yes, explain:

1. Will there be a need to consider alternative highway design (exception to standards) or construction methods to avoid, minimize or mitigate groundwater flow impacts? Explain:
2. If applicable, describe coordination with the DNR, Federal Resource Agencies, and local Government(s) or other interest groups: , coordination is attached as: