r roject marrie	Project Name:		
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Catego	rization of Infiltration Feasibility Condition based on Groundwater and Water Balance Conditions	Form I-8B¹ (Worksheet C.4-2)			
Part 1 - Full Infiltration Feasibility Screening Criteria					
DMA(s) Being Analyzed: Project Phase:					
Criteria 1: Groundwater Screening					
1A	<ul> <li>Groundwater Depth. Is the depth to seasonally high groundwater tables (normal high depth during the wet season) beneath the base of any full infiltration BMP greater than 10 feet?</li> <li>☐ Yes; continue to Step 1B.</li> <li>☐ No; The depth to groundwater is less than or equal to 10 feet, but site layout changes or reasonable mitigation measures can be proposed to support full infiltration BMPs. Continue to step 1B.</li> <li>☐ No; The depth to groundwater is less than or equal to 10 feet and site layout changes or reasonable mitigation measures cannot be proposed to support full infiltration BMPs. Answer "No" for Criteria 1 Result.</li> </ul>				
1B	<ul> <li>Contaminated Soil/Groundwater. Are proposed full infiltration BMPs at least 250 feet away from contaminated soil or groundwater sites? This can be confirmed using GeoTracker (geotracker.waterboards.ca.gov) to identify open contaminated sites. The setbacks must be the closest horizontal radial distance from the surface edge (at the overflow elevation) of the BMP.</li> <li>□ Yes; continue to Step 1C.</li> <li>□ No; However, site layout changes or reasonable mitigation measures can be proposed to support full infiltration BMPs. Continue to Step 1C.</li> <li>□ No; Site layout changes or reasonable mitigation measures cannot be proposed to support full infiltration BMPs. Answer "No" to Criteria 1 Result.</li> </ul>				
1C	<ul> <li>Inadequate Soil Treatment Capacity. Are full infiltration BMPs proposed in DMA soils that have adequate soil treatment capacity?</li> <li>The DMA has adequate soil treatment capacity if ALL of the following criteria (detailed in C.2.2.1) for all soil layers beneath the infiltrating surface are met: <ul> <li>USDA texture class is sandy loam or loam or silt loam or silt or sandy clay loam or clay loam or silty clay loam or sandy clay or silty clay or clay; and</li> <li>Cation Exchange Capacity (CEC) greater than 5 milliequivalents/100g; and</li> <li>Soil organic matter is greater than 1%; and</li> <li>Groundwater table is equal to or greater than 10 feet beneath the base of the full infiltration BMP.</li> <li>Yes; continue to Step 1D.</li> <li>No; However, site layout changes or reasonable mitigation measures can be proposed to support full infiltration BMPs. Continue to Step 1D.</li> <li>No; Site layout changes or reasonable mitigation measures cannot be proposed to support full infiltration BMPs. Answer "No" to Criteria 1 Result.</li> </ul> </li> </ul>				

<sup>&</sup>lt;sup>1</sup> This form must be completed each time there is a change to the site layout that would affect the infiltration feasibility condition. Previously completed forms shall be retained to document the evolution of the site storm water design.



Project Name:	

Categor	rization of Infiltration Feasibility Condition based on Groundwater and Water Balance Conditions	Form I-8B¹ (Worksheet C.4-2)	
1D	Other Groundwater Contamination Hazards. Are there site-sphazards not already mentioned (refer to Appendix C.2.2) that can full infiltration BMPs?  ☐ Yes; there are other contamination hazards identified that to Criteria 1 Result.  ☐ No; there are other contamination hazards identified that to Criteria 1 Result.  ☐ N/A; no contamination hazards are identified. Answer "Y	be reasonably mitigated to support can be mitigated. Answer "Yes" cannot be mitigated. Answer "No"	
Criteria 1 Result	Can infiltration greater than 0.5 inches per hour be allowed with contamination that cannot be reasonably mitigated to an acceptal a list of typically reasonable and typically unreasonable mitigation Yes; Continue to Part 1, Criteria 2.  No; Continue to Part 1 Result.	ble level? See Appendix C.2.2.8 for	
Summarize groundwater quality and any mitigation measures proposed. Documentation should focus on groundwater table, mapped soil types and contaminated site locations.			

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	ization of Infiltration Feasibility Condition based on Groundwater and Water Balance Conditions	Form I-8B <sup>1</sup> (Worksheet C.4-2)	
Criteria 2	: Water Balance Screening		
2A	<ul> <li>Ephemeral Stream Setback. Does the proposed full infiltration</li> <li>The full infiltration BMP is located at least 250 feet away</li> <li>The bottom surface of the full infiltration BMP is at seasonally high groundwater tables.</li> <li>□ Yes; Answer "Yes" to Criteria 2 Result.</li> <li>□ No; Continue to Step 2B.</li> </ul>	from an ephemeral stream; AND	
2B	<ul> <li>Mitigation Measures. Can site layout changes be proposed to support full infiltration BMPs?</li> <li>□ Yes; the site can be reconfigured to mitigate potential water balance issues. Answer "Yes" to Criteria 2 Result.</li> <li>□ No; the site cannot be reconfigured to mitigate potential water balance issues. Continue to Step 2C and provide discussion.</li> </ul>		
2C	Additional studies. Do additional studies support full infiltration BMPs?  In the event that water balance effects are used to reject full infiltration (anticipated to be rare), additional analysis shall be completed and documented by a qualified professional indicating the site-specific information evaluated and the technical basis for this finding.  Yes; Answer "Yes" to Criteria 2 Result.  No; Answer "No" to Criteria 2 Result.		
Criteria 2 Result	Can infiltration greater than 0.5 inches per hour be allowed with issues such as change of seasonality of ephemeral streams?  Yes; Continue to Part 1 Result.  No; Continue to Part 1 Result.	out causing potential water balance	
	potential water balance effects. Documentation should focus on o ephemeral streams and groundwater depth.	mapping and soil data regarding	



Project Name:			
Categorization of Infiltration Feasibility Condition based on Groundwater and Water Balance Conditions		Form I-8B <sup>1</sup> (Worksheet C.4-2)	
Part 1 – Full Infiltration Groundwater and Water Balance Screening Result <sup>2</sup>	ing	Result	
If answers to Criteria 1 and 2 are "Yes", a full infiltration design potentially feasible. The feasibility screening category is Full Infiltrational based on groundwater conditions.  If answer to Criteria 1 or Criteria 2 is "No", infiltration may be possible some extent but would not generally be feasible or desirable to achiev "full infiltration" design based on groundwater conditions. Proceed to 2.	e to ve a	☐ Full Infiltration ☐ Complete Part 2	
Part 2 – Partial vs. No Infiltration Feasibility Scre	enin	g Criteria	
DMA(s) Being Analyzed:	DMA(s) Being Analyzed: Pro		
Criteria 3: Groundwater Screening			
Contaminated Soil/Groundwater. Are partial infiltration BMPs proposed at least 100 feet away from contaminated soil or groundwater sites? This can be confirmed using GeoTracker (geotracker.waterboards.ca.gov) to identify open contaminated sites. This criterion is intentionally a smaller radius than full infiltration, as the potential quantity of infiltration from partial infiltration BMPs is smaller.  □ Yes; Answer "Yes" to Criteria 3 Result. □ No; However, site layout changes can be proposed to avoid contaminated soils or soils that lack adequate treatment capacity. Select "Yes" to Criteria 3 Result. It is a requirement for the SWQMP preparer to identify potential mitigation measures. □ No; Contaminated soils or soils that lack adequate treatment capacity cannot be avoided and partial infiltration BMPs are not feasible. Select "No" to Criteria 3 Result.			
Criteria 3 Result: Can infiltration of greater than or equal to 0.05 inches/hour and less than or equal to 0.5 inches/hour be allowed without increasing risk of groundwater contamination that cannot be reasonably mitigated to an acceptable level?  Yes; Continue to Part 2, Criteria 4.  No; Skip to Part 2 Result.			
Summarize findings and basis. Documentation should focus on mapped soil locations.	l type	s and contaminated site	

<sup>&</sup>lt;sup>2</sup> To be completed using gathered site information and best professional judgement considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by City Engineer to substantiate findings.



Categorization of Infiltration Feasibility Condition based on Groundwater and Water Balance Conditions	Form I-8B <sup>1</sup> (Worksheet C.4-2)
Criteria 4: Water Balance Screening	
<b>Additional studies.</b> In the event that water balance effects are used to reject partia rare), a qualified professional must provide an analysis of the incremental effects the water balance compared to incidental infiltration under a no infiltration scenar etc.).	of partial infiltration BMPs on
Criteria 4 Result: Can infiltration of greater than or equal to 0.05 inches/hour inches/hour be allowed without causing potential water balance issues such as charstreams?  □ Yes: Continue to Part 2 Result. □ No: Continue to Part 2 Result.	4
Summarize potential water balance effects. Documentation should focus on map proximity to ephemeral streams and groundwater depth.	ping and soil data regarding
Part 2 – Partial Infiltration Groundwater and Water Balance Screening Result <sup>3</sup>	Result
If answers to Criteria 3 and Criteria 4 are "Yes", a partial infiltration design is potentially feasible. The feasibility screening category is Partial Infiltration based on groundwater and water balance conditions.	☐ Partial Infiltration Condition
If answer to Criteria 3 or Criteria 4 is "No", then infiltration of any volume is considered to be infeasible within the site. The feasibility screening category is No Infiltration based on groundwater or water balance condition.	☐ No Infiltration Condition

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<sup>&</sup>lt;sup>3</sup> To be completed using gathered site information and best professional judgement considering the definition of MEP in the MS4 Permit. Additional testing and/or studies may be required by City Engineer to substantiate findings.

