Table 10
Evaluation of Eagle Rock
Groundwater Quality Ambient Network

Network Name :	**EAGLE ROCK**
Aquifer Numbers:	193 (Osoyoos West), 194 (Osoyoos east)
Monitored Since:	July 13, 1987
Footprint Area:	7.8 km^2
Number of Obs wells:	6 wells at 6 sites
Number wells in WRA:	117
Aquifer Classification:	353 IA (rank 14)
Parameters ≥ GCDWQ:	Iron, Manganese
Contaminants of Concern:	NO3, As

Network Objective	Measurement Criteria	Current Status	Evidence of Change	Response Options	Comments
1 Spatial and Depth Coverage	a. background well(s) b. coverage in areas of suspected impacts c. coverage of all indicated spatial mode areas d. coverage of hydraulically isolated formations	- no background wells up-gradient to north or east - most wells concentrated in one area at south end of aquifer	- more wells available to north - several wells at Tolko site - no known geothermal - Larkin 4 (WTN 38270) appears impacted	- no response/change - add wells to north - reduce redundancy in wells that are clustered in south (drop 2) identified areas of concern	- there are no background wells - the network coverage could be extended by using existing wells to the north and south
2 Suite of Chemistry Parameters and Lab Methods	a. indicator parameters capable of identifying existing/potential threats b. ability for anion/cation balance c. continuity of historical parameters d. consistent suite of parameters e. new parameters reflect emerging lab methods and recs. by Kohut (2009) f. surrogate monitoring methods	- insufficient parameters to verify charge balance HCO3 not regularly included - background for some parameters is modal		- no response/change - sample for complete suite at all wells annually - add to suite at WTN 38270	
3 Sampling Frequency for Network + Wells of Importance	a. consistency in suite of parameters b. duration frequency for primary and secondary priority wells c. sampling for seasonal variation	- paramters not consistent - no seasonal sampling	- sample frequency is not consistent - insufficent data for analysis of outliers and trends	- no response/change - sample more consistently	- sampling in a reduced number of wells but on a regular basis (annually)
4 Field Methods QA/QC Data Validation	a. field sampling + handling protocols b. QA/QC lab results c. cation/anion balance d. QA/QC data entered in EMS e identify statistical outliers	- some outliers identified, As variable likely result of sampling methods		- no response/change - adherence to field protocols - EMS results reviewed quickly so that sample re-testing still possible	
5 Spatial and Temporal Analysis and Reporting	a. visual outliers and spatial/temporal trends b.	- some upward trends exist	- upward trend in Cl, Fe, Ca, Mn, NO3, in WTN 38270	- no response/change - regular analysis/vaildation to identify outliers/trends - communicate with planners - communicate with water users - communicate with planners	- more attention paid to WTN 38270 and area to south where industrial activity exists