

**TABLE 13**  
**QUARTERLY GROUNDWATER COMPLIANCE MONITORING**  
 FLORENCE COPPER INC.  
 FLORENCE, ARIZONA

Parameter	M1-GL		M2-GU		M3-GL		M4-O		M6-GU		M7-GL		M8-O		M14-GL		M15-GU	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Water Level Elevation (ft amsl)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
<b>Indicator Parameters<sup>1</sup>:</b>																		
pH (field) (S.U.)	Monitor <sup>2</sup>	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Specific Conductance (field) (mhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Temperature (field)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Fluoride	4.0	3.2	4.0	3.2	4.0	3.2	5.1	Monitor	4.0	3.2	4.0	3.2	4.0	3.6	4.0	3.2	4.0	3.2
Magnesium	NE <sup>3</sup>	31	NE	39	NE	36	NE	15	NE	44	NE	1.0	NE	1	NE	23	NE	21
Sulfate	NE	184.2	NE	275	NE	187	NE	405	NE	86	NE	82	NE	122	NE	144	NE	89
Total dissolved solids	NE	1028	NE	1496	NE	1157	NE	1072	NE	620	NE	464	NE	609	NE	874	NE	794

**Notes:**

<sup>1</sup> Metals must be analyzed as dissolved metals.

<sup>2</sup> Monitor = Monitoring required, but no aquifer quality limit (AQL) or alert level (AL) will be established in the permit.

<sup>3</sup> NE = Not Established

<sup>4</sup> Reserved - AQL/ALs pending ambient monitoring being performed per Section 2.5.3.2 and the CSI requirements.

mhos/cm = millimhos per centimeter

amsl = above mean sea level

bgs = below ground surface

mg/L = milligrams per liter

S.U. = standard unit

**TABLE 13**  
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Parameter	M16-GU(R)		M17-GL		M18-GU		M19-LBF		M20-O (R)		M21-UBF		M22-O		M23-UBF		M24-O	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Water Level Elevation (ft amsl)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
<b>Indicator Parameters:</b>																		
pH (field) (S.U.)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Specific Conductance (field) (mhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Temperature (field)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Fluoride	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2
Magnesium	NE	14	NE	9.3	NE	8.6	NE	21	NE	14	NE	87	NE	8.6	NE	69	NE	19
Sulfate	NE	112	NE	209	NE	86	NE	89	NE	112	NE	487	NE	86	NE	411	NE	1364
Total dissolved solids	NE	809	NE	831	NE	1094	NE	794	NE	809	NE	2867	NE	1094	NE	2392	NE	2363

**TABLE 13**  
**QUARTERLY GROUNDWATER COMPLIANCE MONITORING**  
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Parameter	M25-UBF		M26-0		M27-LBF		M28-LBF		M29-UBF		M30-0		M31-UBF		O19-GL		O49-GL(R)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Water Level Elevation (ft amsl)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
<b>Indicator Parameters:</b>																		
pH (field) (S.U.)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Specific Conductance (field) (mhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Temperature (field)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Fluoride	4.0	3.2	4.0	3.4	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2
Magnesium	NE	76	NE	1.0	NE	51	NE	2.6	NE	84	NE	18	NE	NE	NE	17	NE	18
Sulfate	NE	387	NE	105	NE	179	NE	81	NE	456	NE	102	NE	330	NE	99	NE	181
Total dissolved solids	NE	2683	NE	556	NE	1745	NE	610	NE	2751	NE	824	NE	NE	NE	770	NE	849

**TABLE 13**  
**QUARTERLY GROUNDWATER COMPLIANCE MONITORING**  
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 FLORENCE, ARIZONA

Parameter	P19-1-0		P49-O		M54-LBF		M54-O	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Water Level Elevation (ft amsl)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
<b>Indicator Parameters:</b>								
pH (field) (S.U.)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Specific Conductance (field) (mhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Temperature (field)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Fluoride	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2
Magnesium	NE	23	NE	6.2	NE	46.0	NE	11
Sulfate	NE	144	NE	181	NE	329	NE	200
Total dissolved solids	NE	874	NE	801	NE	1731	NE	855

Table 13.1. Quarterly Groundwater Compliance Monitoring at Supplemental Monitoring Wells								
Parameter	M66-UBF (USDW Monitoring Well)		M67-LBF (USDW Monitoring Well)		M68-LBF (USDW Monitoring Well)		M69-UBF (USDW Monitoring Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	TBD <sup>1</sup>	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Water Level Elevation (ft amsl)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>Indicator Parameters:</b>								
pH (field) (S.U.)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Specific Conductance (field) (mhos/cm)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Temperature (field)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Fluoride	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Magnesium	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Sulfate	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total dissolved solids	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Parameter	M70-LBF (USDW Monitoring Well)		M71-UBF (USDW Monitoring Well)		M72-UBF (ACD Demonstration Well)		M73-LBF (ACD Demonstration Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Water Level Elevation (ft amsl)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>Indicator Parameters:</b>								
pH (field) (S.U.)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Specific Conductance (field) (mhos/cm)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Temperature (field)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Fluoride	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Magnesium	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Sulfate	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total dissolved solids	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Parameter	M62-LBF (Fault Monitoring Well)		M63-LBF (Fault Monitoring Well)		M64-LBF (Fault Monitoring Well)		M65-LBF (Fault Monitoring Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Water Level Elevation (ft amsl)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>Indicator Parameters:</b>								
pH (field) (S.U.)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Specific Conductance (field) (mhos/cm)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Temperature (field)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Fluoride	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Magnesium	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Sulfate	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total dissolved solids	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Parameter	M75-UBF (Fault Monitoring Well)		M74-O (Fault Monitoring Well)		M77-UBF (Fault Monitoring Well)		M76-O (Fault Monitoring Well)	
	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)	AQL (mg/L)	AL (mg/L)
Depth to Groundwater (ft. bgs)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Water Level Elevation (ft amsl)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>Indicator Parameters:</b>								
pH (field) (S.U.)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Specific Conductance (field) (mhos/cm)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Temperature (field)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Fluoride	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Magnesium	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Sulfate	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total dissolved solids	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

**Notes:**

*ACD* = annular conductivity device  
*AL* = alert level  
*AQL* = Aquifer Quality Limits  
*ft. amsl* = feet above mean sea level  
*ft. bgs* = feet below ground surface  
*mg/L* = milligrams per liter  
*mhos/cm* = microsiemens per centimeter  
*S.U.* = standard unit  
*TBD* = To Be Determined  
*USDW* = Underground Source of Drinking Water