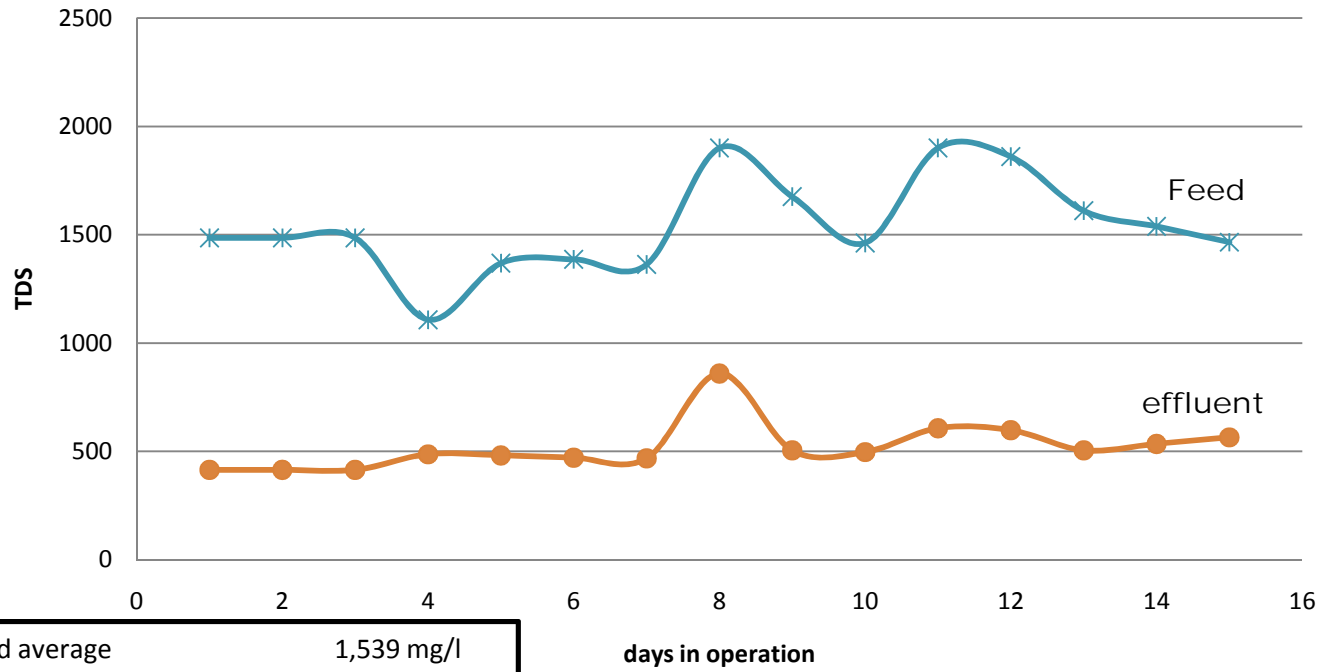


## Double Eagle Cow Creek Single Stage EWP, CBM Produced Water



Feed average	1,539 mg/l
effluent average	522 mg/l
% purification average	66%
recovery	75%
Feed Flow	274 BPD      8 gpm

FIELD PARAMETERS	Result	Feed	Effluent	% purify
Conductivity, pH,	uhmos/cm	2990 7.67	734 7.01	75%
<b>MAJOR IONS, DISSOLVED</b>				
Bicarbonate	mg/L	1710	420	75%
Chloride	mg/L	164	41	75%
Fluoride	mg/L	4.8	3.1	35%
Sulfate	mg/L	1	1	
Calcium	mg/L	14	1	93%
Magnesium	mg/L	4	1	75%
Sodium	mg/L	761	192	75%
<b>METALS, DISSOLVED</b>				
Aluminum	ug/L	<50	<50	
Cadmium	ug/L	<0.1	<0.1	
Copper	ug/L	<1	<1	
Iron	ug/L	175	65	63%
Lead	ug/L	<2	<2	
Manganese	ug/L	11	10	
Mercury	ug/L	<0.06	<0.06	
Zinc	ug/L	11	10	
<b>METALS, TOTAL RECOVERABLE</b>				
Arsenic	ug/L	<0.5	<0.5	
Barium	ug/L	1270	100	92%
Selenium	ug/L	<5	<5	
<b>NON-METALS</b>				
Alkalinity,	mg/l	1400	350	75%
Conductivity	uhmos/cm	2930	734.5	75%
Hardness	mg/l	51	10	80%
SAR		46.1	32.4	
Total Dissolved Solids		2.39 1840	452	

