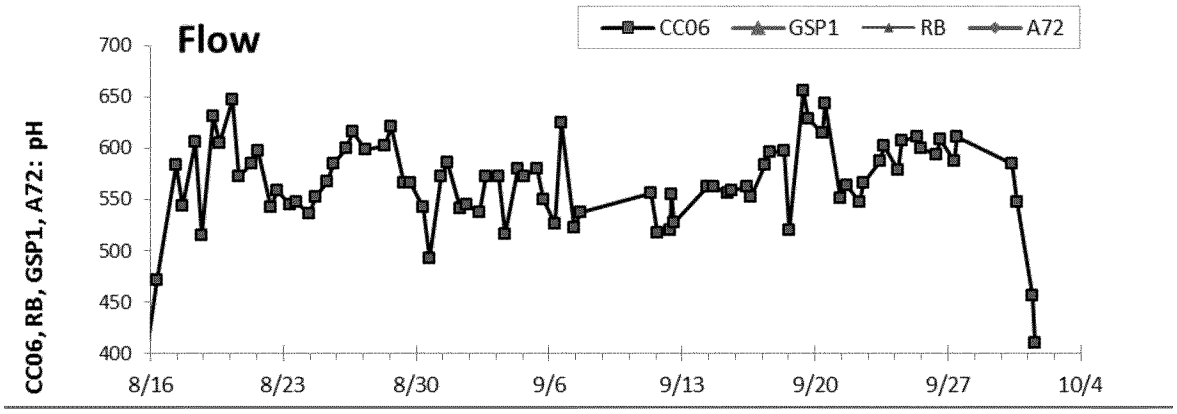
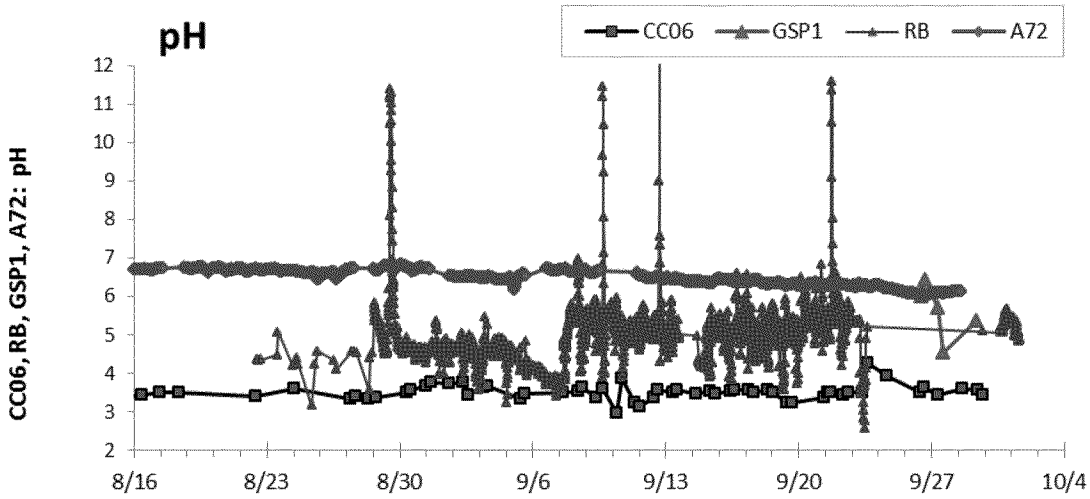
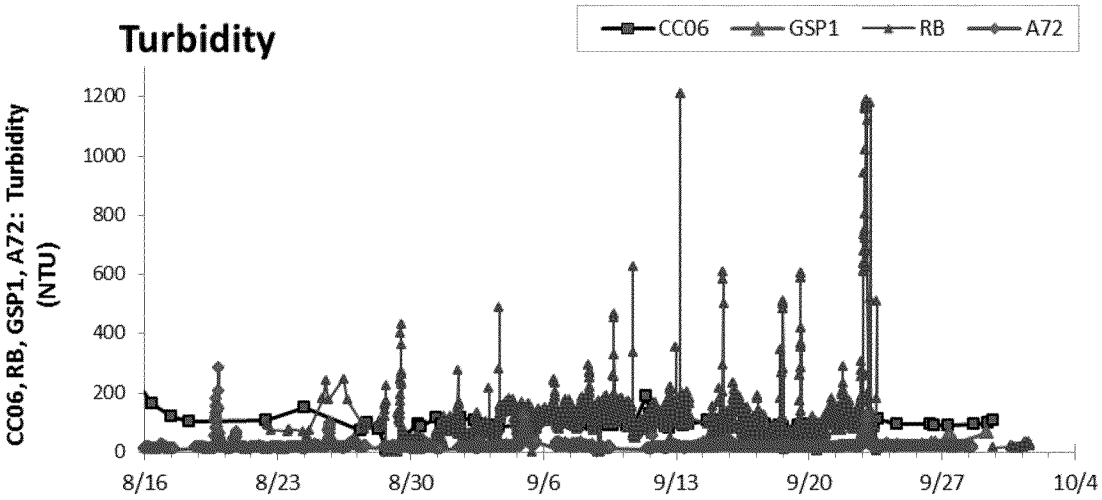
GKM Monitoring and Sampling Data Summary: Created 100315

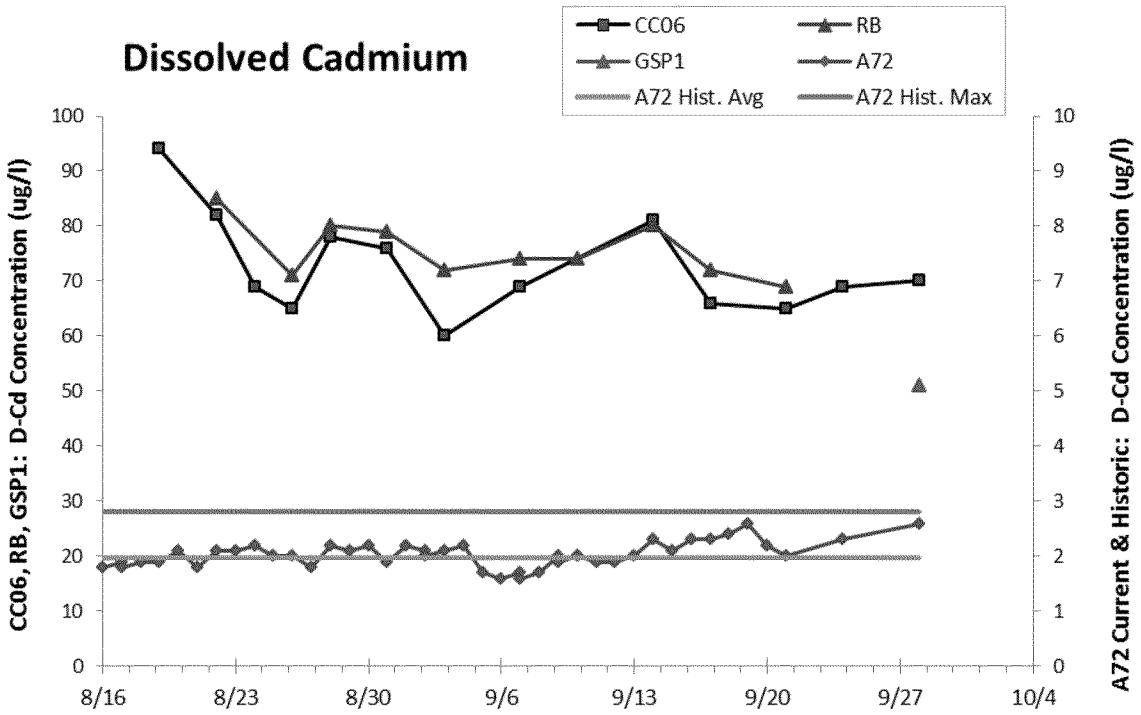
Monitoring Data through 081615-100115: pH, Turbidity, & Flow

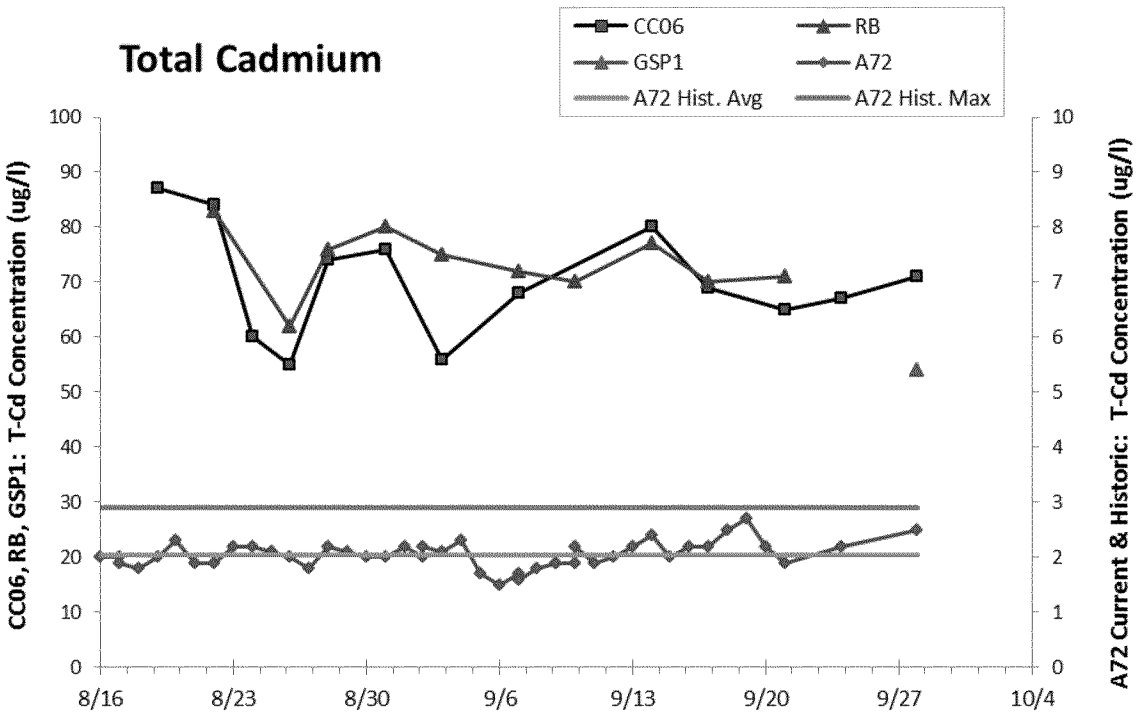




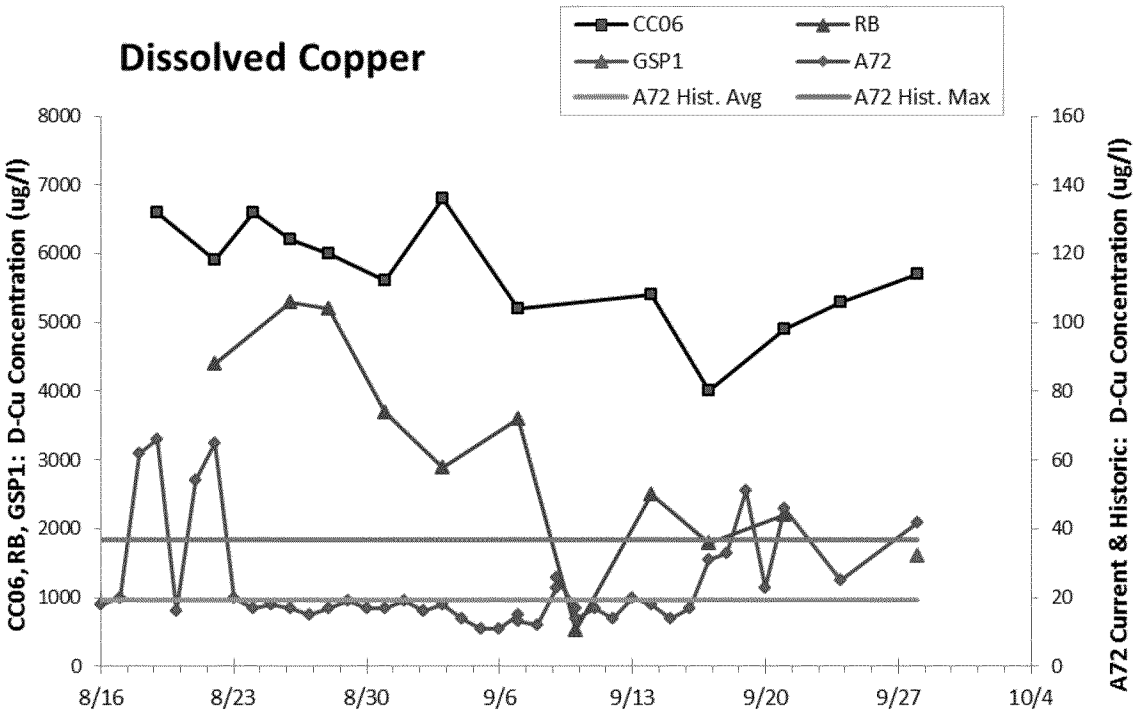


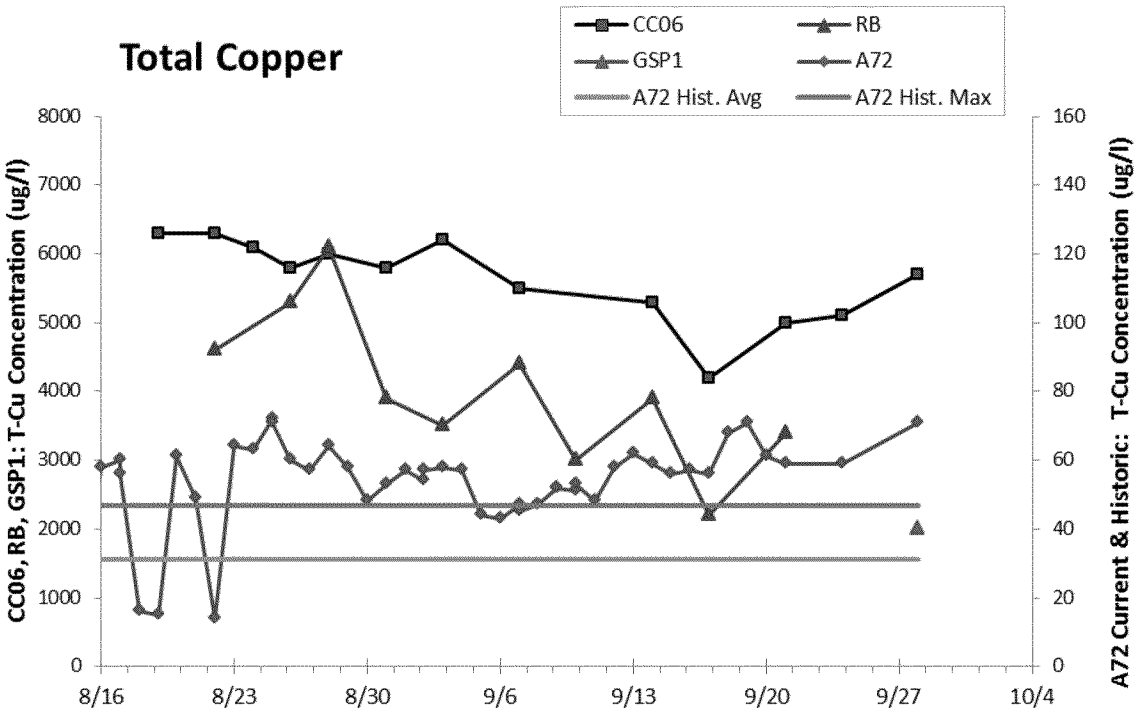
Sampling Data 081615-092815: Cadmium



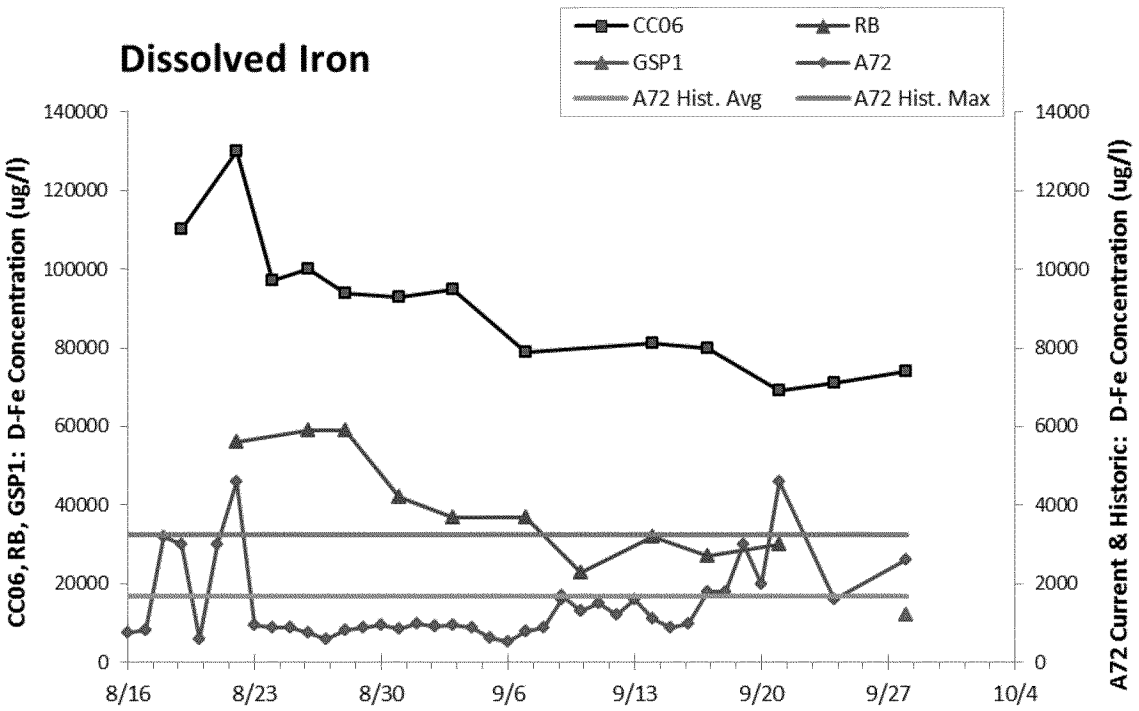


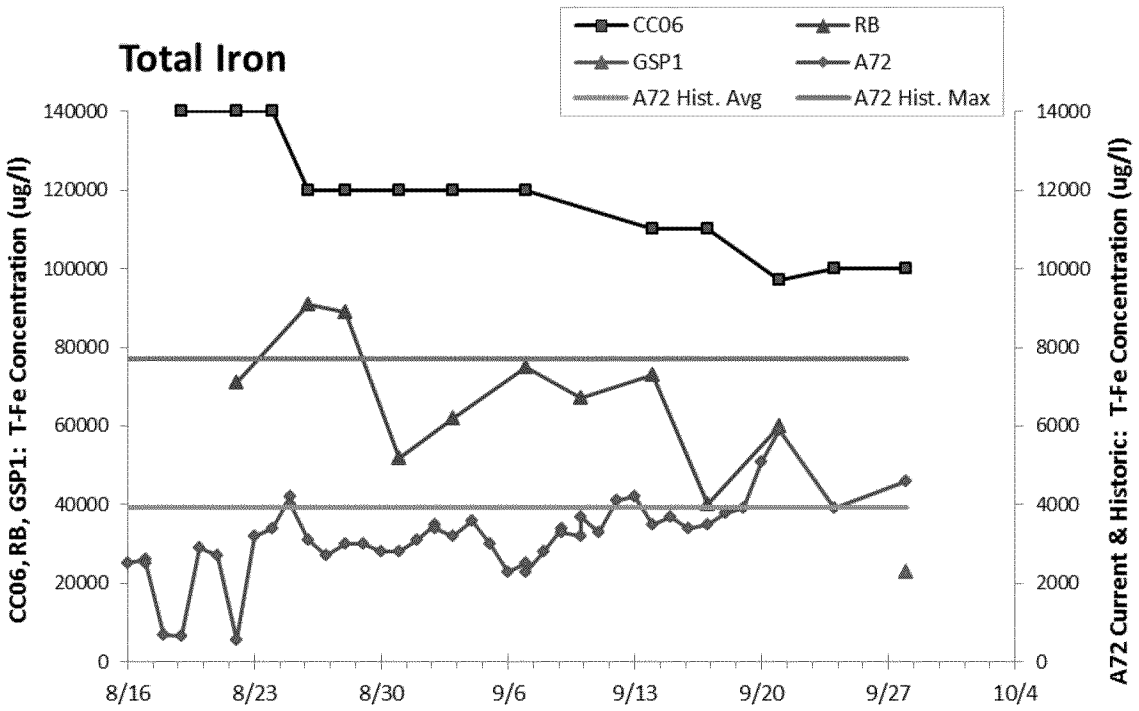
Sampling Data 081615-092815: Copper



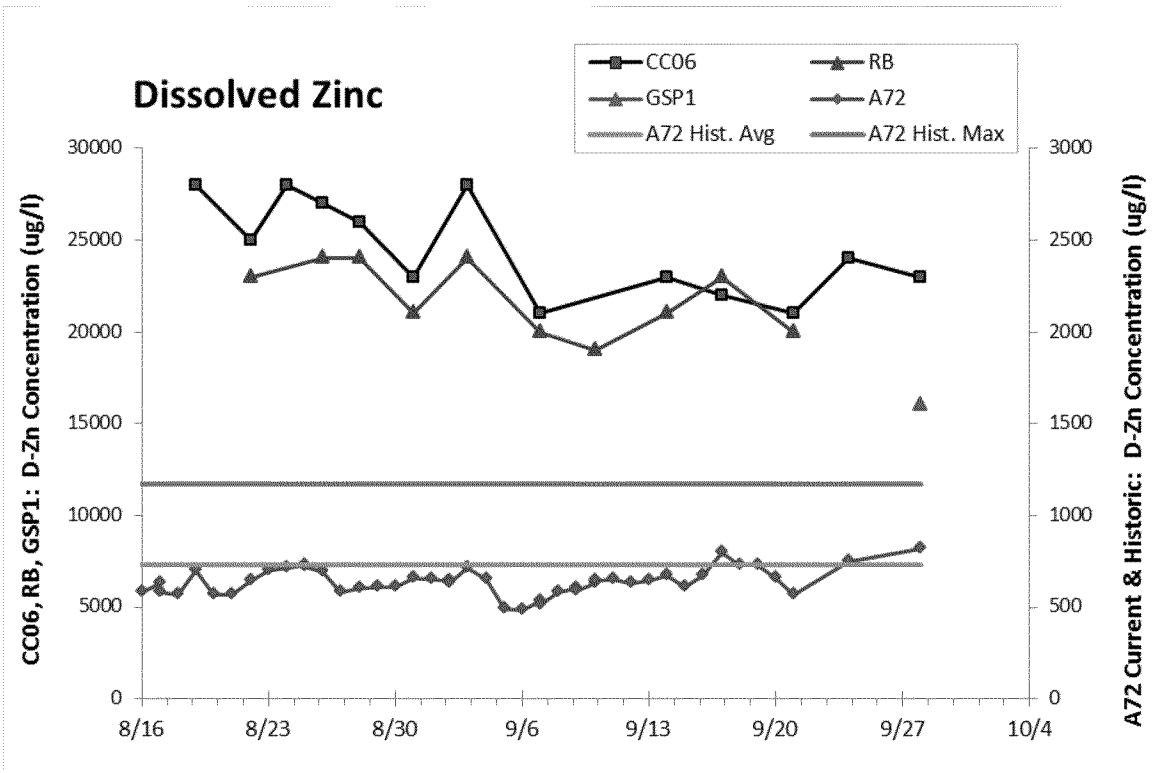


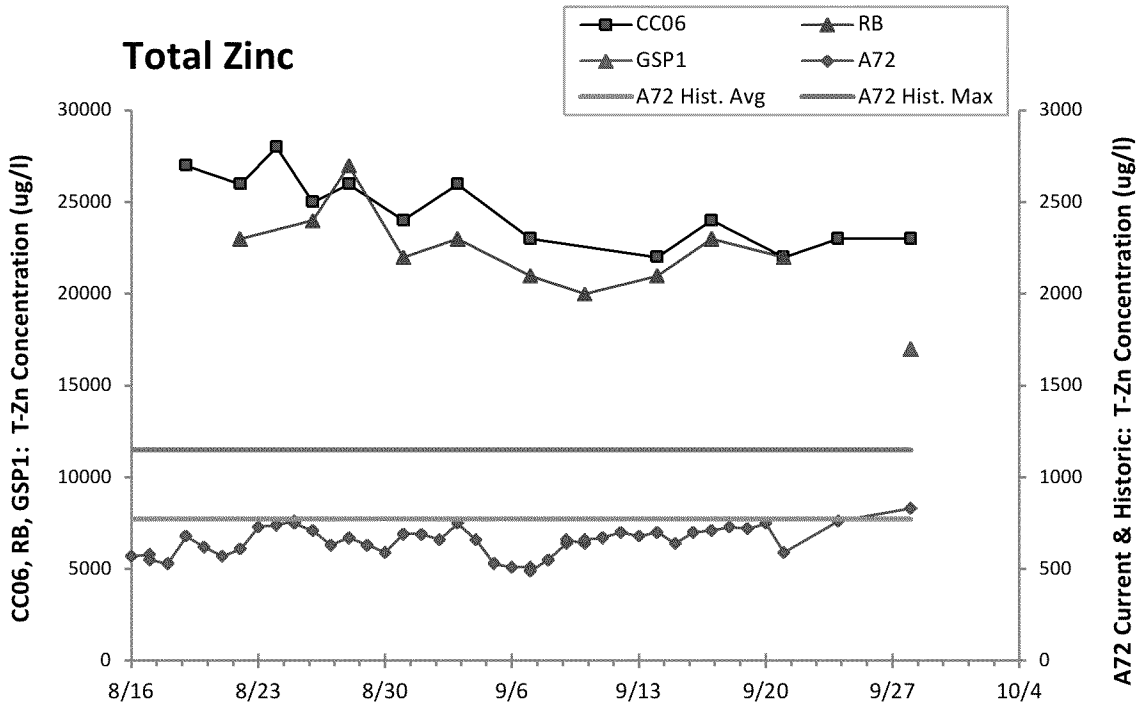
Sampling Data 081615-092815: Iron





Sampling Data 081615-092815: Zinc





GKM Water Treatment 092615-100215

Parameter/ Date	Flow from GKM (gal/day)	Flow from GKM (gpm)	Flow to RnB (gpm)	Flow to Bypass or GSP1 (gpm)	Total flow from box (gpm)	Lime rate (lbs/day)	Sodium Hydroxide rate (gpm)	Flocullent type/rate (lbs/day)	pH from GKM	pH into box	pH RB pond effluent	Turbidity RB pond effluent	pH GS pond effluent	Turbidity GS pond effluent	Comments/ Changes
9/26/2015	864,720	600.5	0	665	665	NA	0.5	32 oz (vol)/ 15 min	3.58	3.29	NA	NA	NA	NA	RB pond flow shut off, no sample or monitoring. Channel reconstruction ongoing.
9/27/2015	866,880	602	0	665	665	8lbs/9min. (~1280lbs/day) starting ~11:30	0.5 gpm until ~10:30	32 oz (vol)/ 15 min until ~10:30	3.45	3.13	NA	NA	NA	NA	RB pond flow shut off, no sample or monitoring. Only one monitoring event. Channel reconstruction ongoing.
9/28/2015	862,560	599	0	666	665	8lbs/9min. (~1280lbs/day) stopped at ~17:00	0.5 gpm starting 17:00	32 oz (vol)/ 15 min starting 17:00	3.56	3.35	NA	NA	NA	NA	RB pond flow shut off, no sample or monitoring. Caustic treatment started back up again at 17:00. Channel reconstruction ongoing.
9/29/2015	812,880	564.5	235	430	665	8lbs/9min. (~1280lbs/day) started at ~12:00	0.5 gpm stopped at 11:30	32 oz (vol)/ 15 min stopped at 11:30	3.51	3.40	NA	NA	NA	NA	11:30, stop treatment at GSP1. 12:00 start lime at hut.
9/30/2015	842,400	585	365	300	665	8lbs/9min. (~1280lbs/day) started at ~12:00	0.25 gpm from 12:00-17:00	32 oz (vol)/ 15 min stopped at 11:30	3.52	3.37	NA	NA	NA	NA	Starting 50% to RB and 50% at GSP1 until mine actiivities cause high turbitity at ~12:00. Caustic rate at 364 gpd. Changed back to 50% RB, 50% bypass at 17:00.
10/1/2015	624,168	433.45	365	301	665	8lbs/9min. (~1280lbs/day) started at ~12:00	0.25 gpm 16:30-23:59	32 oz (vol)/ 15 min stopped at 11:30	3.52	3.31	NA	NA	NA	NA	50% to RB and 50% bypass until mine actiivities cause high turbitity at ~16:30. Began 50% to RB and 50% GSP1; caustic rate at 364 gpd; which ran until 08:00 10/02.
10/2/2015	636,480	442	173	492	665	8lbs/9min. (~1280lbs/day) started at ~12:00	0.25 gpm 00:00-08:00 and 12:30-14:30	32 oz (vol)/ 15 min stopped at 11:30	3.52	3.36	NA	NA	NA	NA	50% to RB and 50% bypass from 8:00 to 12:30. 50% to RB and 50% GSP1; caustic rate at 364 gpd from 12:30 to 14:30.

*Note: Bypass meter unreliable starting 9/18/15. Flows estimated by subtracting RnB flow from average total flow from box from measurements taken prior to pipe change.