

The Art Galvanizing Works, Inc.

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PRO-pHx STUDY

06/02/04 - 10/01/04

This is an evaluation of two (2) tanks running side by side with the same type of work.
One tank has PRO-pHx Acid Life Extender additive; the other tank does not.

Tank 1 - With PRO-pHx Acid Life Extender								Tank 2 - Without PRO-pHx Acid Life								
DATE	Total Iron		Total Zinc		Total Acidity (As H2SO4)		Free Acidity (As H2SO4)		Total Iron		Total Zinc		Total Acidity (As H2SO4)		Free Acidity (As H2SO4)	
	mg/L	% w/v	mg/L	% w/v	mg/L	% w/v	mg/L	% w/v	mg/L	% w/v	mg/L	% w/v	mg/L	% w/v	mg/L	% w/v
Tank 1 - With PRO-pHx Acid Life Extender (1st Tank = 06/02/04)								Tank 2 - Without PRO-pHx Acid Life (1st Tank = 06/02/04)								
6/02/04	33,400	3.34	73,400	7.34	169,000	16.90	36,000	3.60	11,300	1.13	70,600	7.06	202,000	20.20	94,000	9.40
6/07/04	39,100	3.91	93,800	9.38	182,000	18.20	< 7,000	< .07	12,800	1.28	95,000	9.50	202,000	20.20	46,000	4.60
6/14/04	31,500	3.15	91,000	9.10	203,000	20.30	28,200	2.82	15,000	1.50	147,000	14.70	299,000	29.90	39,500	3.95
Tank 1 - With PRO-pHx (Continued)								Tank 2 - Without PRO-pHx (Dumped & Replaced = 2nd Tank = 6/17/04)								
6/21/04	37,300	3.73	75,400	7.54	219,000	21.90	27,200	2.72	3,000	0.30	17,000	1.70	151,000	15.10	99,000	9.90
6/28/04	39,000	3.90	69,000	6.90	219,000	21.90	21,500	2.15	9,500	0.95	56,500	5.65	134,000	13.40	24,000	2.40
7/06/04	35,300	3.53	66,500	6.55	267,000	26.70	67,800	6.78	11,900	1.19	75,800	7.58	175,000	17.50	30,600	3.60
Tank 1 - With PRO-pHx (Continued)								Tank 2 - Without PRO- (Dumped & Replaced = 3rd Tank = 07/09/04)								
7/12/04	39,600	3.96	56,500	5.65	254,000	25.40	46,300	4.63	2,000	0.20	14,500	1.45	129,000	12.90	75,900	7.57
7/19/04	46,000	4.60	74,800	7.48	198,000	19.80	31,900	3.19	7,750	0.78	69,000	6.90	114,000	11.40	15,300	1.53
7/26/04	64,800	6.46	103,000	10.30	230,000	23.00	22,300	2.23	13,800	1.38	107,000	10.70	202,000	20.20	51,000	5.10
8/02/04	50,300	5.03	113,000	11.30	298,000	29.80	35,200	3.52	20,500	2.05	114,000	11.40	274,000	27.40	107,000	10.70
8/09/04	62,000	6.20	122,000	12.20	240,000	24.00	65,700	6.57	25,800	2.58	135,000	13.50	289,000	29.90	94,800	9.48
8/18/04	43,000	4.30	121,000	12.10	336,000	33.60	99,300	9.93	31,000	3.10	141,100	14.10	243,000	24.30	29,000	2.90
8/23/04	54,500	5.45	115,000	11.50	255,000	25.50	65,700	6.57	41,000	4.10	210,000	21.10	298,000	29.80	42,800	4.28
Tank 1 - With PRO-pHx - (Continued)								Tank 2 - Without PRO-pHx - (Dumped & Replaced = 4th Tank = 08/24/04)								
8/30/04	39,000	3.90	77,000	7.70	159,000	15.90	32,100	3.21	21,500	2.15	130,000	1.30	197,000	19.70	36,700	3.67
9/07/04	43,700	4.37	95,000	9.50	186,000	18.60	34,200	3.42	34,100	3.41	217,000	2.17	182,000	18.20	47,300	4.73
9/13/04	72,000	7.20	175,000	17.50	222,000	22.20	8,200	0.82	50,900	5.09	190,000	1.90	231,000	23.10	11,900	11.90
Tank 1 - With PRO-pHx - (Continued)								Tank 2 - Without PRO-pHx - (Dumped & Replaced = 5th Tank = 09/13/04)								
9/20/04	70,000	7.00	163,000	16.30	224,000	22.40	19,800	1.98	7,600	0.78	51,000	5.10	175,000	17.50	93,600	9.36
9/27/04	56,300	5.63	161,000	16.10	207,000	20.70	33,400	3.34	11,900	1.19	93,800	9.38	161,000	16.10	41,800	4.18

www.PRO-pHx.com

An Environmentally Sustainable Product From Wagner Environmental Technologies

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