FLEIS&VANDENBRINK
DESIGN. BUILD. OPERATE.

December 20, 2021

Daniel Hamel
Michigan Department of EGLE
Remediation and Redevelopment Division
Jackson District Office Building
301 E. Louis Glick Highway
Jackson, Michigan 49210

Re: **Gelman Quarterly Progress Report**
4th Quarter, 2021
October 1, 2021 to December 31, 2021

Dear Mr. Hamel:

Please find enclosed the Quarterly Progress Report for the period of October 1, 2021 to December 31, 2021.

Should you have any questions regarding this document, please contact me at 269-993-7585.

Sincerely,

FLEIS & VANDENBRINK

Jim Brode, CPG
Senior Project Manager

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GelmanSciences

4th Quarter, 2021

(October, November, December)

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Summary of Activity

CEB = Central Environmental Building
C3 = C3 aquifer
D2 = D2 aquifer
E = E aquifer
SW = Southwest Property Area
Maple = Maple Road

Treatment Activities

- 10/1/21 - TW-22 (SW) was shut down for rehabilitation.
- 10/1/21-10/3/21 - TW-23 (E) was shut down due to flow fluctuations during TW-29 initial startup.
- 10/1/21-10/4/21 - TW-24 (C3) was shut down to control Red Pond level.
- 10/1/21-10/12/21 - TW-2 (Dolph) (C3) was shut down for rehabilitation.
- 10/4/21 - Treatment System 2A was shut down briefly for injector installation.
- 10/12/21-10/15/21 - TW-20 (C3) was shut down to control Red Pond level.
- 10/13/21 - TW-22 (SW) flow was briefly reduced below detectable rates during sampling.
- 10/15/21 - Treatment System 2A was shut down briefly for system maintenance.
- 10/18/21-10/25/21 - PW-1 (Marshy) was shut down for rehabilitation.
- 10/21/21-10/25/21 - TW-20 (C3) was shut down to control Red Pond level.
- 10/21/21-10/31/21 - TW-24 (C3) was shut down to control Red Pond level.
- 10/26/21-10/27/21 - TW-29 (E) and TW-23 (E) were shut down during LB-4 cleaning.
- 10/26/21-11/10/21 – LB-4 (D2) was shut down for rehabilitation.
- 11/1/21-11/30/21 - TW-24 (C3) was shut down.
- 11/3/21 - TW-2 (Dolph) (C3) and TW-20 (C3) were shut down briefly to control Red Pond level.
- 11/3/21 - Treatment System 1A was automatically shut down briefly by low water sensor.
- 11/18/21 - Treatment System 1A was shut down briefly for maintenance.
- 12/1/21-12/10/21 - TW-24 (C3) was shut down.
- 12/7/21-12/10/21 - TW-21 (D2) was shut down for rehabilitation.
- 12/11/21-12/13/21 - TW-22 (SW) and TW-28 (SW) were shut down due to a power outage.
- 12/13/21-12/17/21 - TW-23 (E) was shut down for rehabilitation.
- 12/20/21 - TW-24 (C3) was shut down briefly during electrical work.
- 12/20/21-12/22/21 - TW-20 (C3) and PW-1 (Marshy) were shut down during electrical work.
- 12/21/21-12/28/21 - TW-18 (E) was shut down for rehabilitation.
- 12/22/21-12/31/21 - TW-24 (C3) was shut down.
- 12/27/21 - TW-2 (Dolph) (C3) was shut down briefly due to communication loss.
- 12/29/21 - Treatment System 2A was shut down briefly to repair a faulty valve.

Field Activities

- 10/2021 – TW-22, TW-2 (Dolph), PW-1, and LB-4 were rehabilitated.
- 10/2021 – Delineation of wetland on east side of Third Sister Lake.
- 11/2021 – Drilled test borings TB-21-01, TB-21-02, and TB-21-03 along Valley Drive (Rose Extraction Area).
- 11/2021 – Drilled test borings for onsite extraction wells.
- 12/2021 – TW-21, TW-23, and TW-18 were rehabilitated.
- Drilled test borings and installed Western Area monitoring wells:
    - MW-142s/d at 50 W. Delhi (10/2021)
    - MW-143s/i/d at Park Rd between Burton and Myrtle (10/2021-11/2021)
    - MW-144s/i/d at 3340 W. Liberty Rd (11/2021-12/2021)
    - MW-145s/i/d at 4517 Dexter Ann Arbor Rd (12/2021)

Submittals/Responses

10/20/21	Gelman submitted Discharge Monitoring Report (DMR) to EGLE Gelman submitted Monthly Monitoring Report (NPDES) to EGLE Gelman submitted 3rd Quarter 2021 Report to EGLE
11/20/21	Gelman submitted Discharge Monitoring Report (DMR) to EGLE Gelman submitted Monthly Monitoring Report (NPDES) to EGLE
12/20/21	Gelman submitted Discharge Monitoring Report (DMR) to EGLE Gelman submitted Monthly Monitoring Report (NPDES) to EGLE

Anticipated Major Activities for the Next Quarter

- Drilling/installation of monitoring wells in Western and Eastern Areas
- Installation of onsite extraction well
- Continuation of property access arrangements
- Submittal of permit for portion of Rose Extraction System
- Submittal of NPDES permit application for First Sister Lake discharge
- Implementation of Western Area GSI Work Plan

Quarterly Performance Analysis

For the months of October, November, and December 2021, over 205 pounds of 1,4-dioxane were removed and 84,071,303 gallons of water were extracted from the contaminated aquifers, treated, and discharged. The total mass of 1,4-dioxane removed since May 1997 is over 97,035 pounds and the total volume of water discharged since May 1997 is over 9.1 billion gallons.

In general, the performance of the operation was as expected, purging, and treating contaminated groundwater to the existing allowable capacities.

QUARTERLY H_2O_2 INFLUENT	
12/16/2021	H_2O_2
Well Name	**µg/l**
TW-20	<50
TW-18	<50
TW-23	<50
TW-2 (Dolph)	<50
LB-4	<50
TW-19	Not Sampled (well plugged)
TW-22	<50
TW-28	<50
TW-21	<50
PW-1	<50

Mass Reduction

MASS REDUCTION DETAIL BY AQUIFIER

October 1 - October 31, 2021

	Extraction Well	Month To Date Gallons Extracted	Month To Date Average Daily Flow Rate GPM	Month To Date Average Daily Pounds Removed	Month To Date Pounds Removed	Month To Date Average Concentration ppb
C3						
	TW-2 (Dolph)	738,058	17	0.024	0.74	120
	TW-10	73,638	1.6	0.014	0.44	710
	TW-14	1,131,043	25	0.031	1.0	101
	TW-20	891,832	20	0.18	5.6	765
	TW-24	365,591	8.2	0.18	5.7	1,906
Sub-Totals		3,200,162	72	0.33	10	
Marshy						
	PW-1	73,201	1.6	0.015	0.46	741
Sub-Totals		73,201	1.6	0.015	0.46	
E						
	TW-17	1,411,719	32	0.032	1.0	85
	TW-18	4,608,687	103	0.31	9.7	252
	TW-29	2,163,064	48	0.21	6.4	352
	TW-23	2,046,610	46	0.20	6.3	368
Sub-Totals		10,230,080	229	0.75	23	
Southwest						
	TW-28	1,113,584	25	0.18	5.6	598
	TW-22	87,328	2.0	0.010	0.31	425
Sub-Totals		1,200,912	27	0.19	5.9	
D2						
	LB-1	459,840	10	0.036	1.1	443
	LB-4	3,650,312	82	0.44	14	445
	TW-5	1,074,772	24	0.18	5.6	655
	TW-9	102,691	2.3	0.012	0.37	430
	TW-21	4,474,197	100	0.29	9.1	244
Sub-Totals		9,761,812	219	0.96	30	
Overall Totals		24,466,167	548	2.2	70	

MASS REDUCTION DETAIL BY AQUIFIER

November 1 - November 30, 2021

	Extraction Well	Month To Date Gallons Extracted	Month To Date Average Daily Flow Rate GPM	Month To Date Average Daily Pounds Removed	Month To Date Pounds Removed	Month To Date Average Concentration ppb
C3						
	TW-2 (Dolph)	1,179,235	27	0.041	1.2	131
	TW-20	1,299,814	30	0.27	8.2	777
Sub-Totals		2,479,049	57	0.31	9.4	
Marshy						
	PW-1	82,258	1.9	0.016	0.47	708
Sub-Totals		82,258	1.9	0.016	0.47	
E						
	TW-17	2,020,322	47	0.039	1.2	72
	TW-18	4,424,353	102	0.29	8.7	242
	TW-29	2,155,011	50	0.17	5.1	293
	TW-23	2,167,348	50	0.23	6.8	386
Sub-Totals		10,767,034	249	0.72	22	
Southwest						
	TW-28	1,085,546	25	0.17	5.1	586
	TW-22	97,809	2.3	0.011	0.34	433
Sub-Totals		1,183,355	27	0.18	5.5	
D2						
	LB-1	901,918	21	0.073	2.2	300
	LB-4	2,944,041	68	0.33	10	423
	TW-5	1,637,641	38	0.31	9.3	704
	TW-21	4,326,189	100	0.27	8.2	235
Sub-Totals		9,809,789	227	0.98	29	
Overall Totals		24,321,485	563	2.2	67	

MASS REDUCTION DETAIL BY AQUIFIER

December 1 - December 31, 2021

	Extraction Well	Month To Date Gallons Extracted	Month To Date Average Daily Flow Rate GPM	Month To Date Average Daily Pounds Removed	Month To Date Pounds Removed	Month To Date Average Concentration ppb
C3						
	TW-1	903	0.020	0.00	0.00	52
	TW-2 (Dolph)	1,199,530	27	0.042	1.3	130
	TW-3	847	0.019	0.00	0.00	40
	TW-10	410	0.0092	0.00	0.0016	470
	TW-14	829,569	19	0.025	0.76	110
	TW-20	1,213,217	27	0.25	7.8	770
	TW-24	179,040	4.0	0.10	3.2	2,152
Sub-Totals		3,423,516	77	0.42	13	
Marshy						
	PW-1	90,681	2.0	0.019	0.60	798
Sub-Totals		90,681	2.0	0.019	0.60	
E						
	TW-11	1,810,333	41	0.073	2.3	150
	TW-17	1,761,527	39	0.029	0.90	60
	TW-18	3,480,536	78	0.21	6.5	226
	TW-29	2,515,843	56	0.23	7.1	342
	TW-23	1,971,382	44	0.20	6.3	382
Sub-Totals		11,539,621	259	0.75	23	
Southwest						
	TW-28	1,037,722	23	0.18	5.5	636
	TW-22	88,378	2.0	0.011	0.33	451
Sub-Totals		1,126,100	25	0.19	5.9	
D2						
	LB-1	1,729	0.039	0.00	0.0048	330
	LB-4	4,470,610	100	0.50	16	415
	TW-9	640	0.014	0.00	0.0020	380
	TW-21	3,996,219	90	0.24	7.6	227
Sub-Totals		8,469,198	190	0.75	23	
Overall Totals		24,649,116	552	2.1	66	

MASS REDUCTION SUMMARY Mass Removed Per Month (lb)						
A	B	C	D	E	F	G
Month	Mass Removed from Unit E Only	Mass Removed from Southwest Only	Mass Removed from Marshy Only	Mass Removed from Units C3 and D2 Only	Mass Removed from Unit D0	Total Mass Removed from Units E, D2, C3, D0, Southwest and Marshy
Aug-00	0	0	8	366		374
Sep-00	0	0	9	332		341
Oct-00	0	5	9	583		597
Nov-00	0	3	12	1160		1175
Dec-00	0	0	10	1040		1050
Jan-01	0	0	7	816		823
Feb-01	0	0	7	1056		1063
Mar-01	0	0	11	1379		1390
Apr-01	0	0	9	1140		1149
May-01	0	1	8	990		999
Jun-01	0	2	8	933		943
Jul-01	0	2	10	1121		1133
Aug-01	0	2	13	1018		1033
Sep-01	0	1	9	909		919
Oct-01	0	5	8	896		909
Nov-01	0	4	5	827		836
Dec-01	0	6	4	768		778
Jan-02	0	6	5	753		764
Feb-02	0	4	6	691		701
Mar-02	0	7	7	663		677
Apr-02	0	6	7	682		695
May-02	100	9	7	898		1014
Jun-02	94	9	6	889		998
Jul-02	56	10	7	640		713
Aug-02	53	8	6	745		812
Sep-02	51	8	6	860		925
Oct-02	33	6	4	603		646
Nov-02	57	8	5	880		950
Dec-02	48	9	5	842		904
Jan-03	45	8	6	839		898
Feb-03	37	6	6	767		816
Mar-03	44	8	7	763		822
Apr-03	39	8	3	716		766
May-03	36	13	5	725		779
Jun-03	34	15	5	683		737
Jul-03	29	15	5	678		727
Aug-03	31	15	6	676		728
Sep-03	27	16	5	644		692
Oct-03	34	17	5	701		757
Nov-03	26	12	5	663		706
Dec-03	29	14	6	635		684
Jan-04	28	15	6	667		716
Feb-04	8	11	5	485		509
Mar-04	23	14	7	573		617
Apr-04	27	15	6	537		585
May-04	16	10	5	439		470
Jun-04	21	11	5	499		536
Jul-04	36	12	5	506		559

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Aug-04	54	12	5	480		551
Sep-04	34	9	5	382		430
Oct-04	30	10	5	358		403
Nov-04	30	9	5	395		439
Dec-04	33	11	5	442		491
Jan-05	29	11	4	404		448
Feb-05	26	9	4	390		429
Mar-05	27	9	4	409		450
Apr-05	33	4	3	396		436
May-05	27	8	2	364		401
Jun-05	31	9	3	361		404
Jul-05	31	8	1	279		319
Aug-05	12	6	2	275		295
Sep-05	13	8	2	327		350
Oct-05	16	6	3	297		322
Nov-05	13	7	4	291		315
Dec-05	12	8	4	325		349
Jan-06	115	7	3	308		433
Feb-06	144	7	3	290		444
Mar-06	148	8	3	331		490
Apr-06	125	7	3	291		426
May-06	137	9	3	402		551
Jun-06	119	5	2	329		456
Jul-06	107	8	3	310		427
Aug-06	104	8	2	307		421
Sep-06	97	9	3	300		409
Oct-06	93	9	3	327		432
Nov-06	80	7	2	268		357
Dec-06	68	6	2	238		314
Jan-07	91	8	2	305		406
Feb-07	84	8	2	284		378
Mar-07	91	8	3	306		408
Apr-07	84	8	2	280		374
May-07	82	8	2	288		380
Jun-07	81	8	2	279		370
Jul-07	66	8	2	256		332
Aug-07	73	8	2	270		353
Sep-07	77	8	2	247		334
Oct-07	73	8	2	244		327
Nov-07	68	8	2	263		341
Dec-07	69	8	2	260		339
Jan-08	65	7	2	237		311
Feb-08	53	6	2	203		264
Mar-08	56	7	2	220		285
Apr-08	54	7	2	200		263
May-08	55	7	2	206		270
Jun-08	52	6	2	195		256
Jul-08	39	1	2	139		181

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Aug-08	50	7	2	198		256
Sep-08	43	5	2	177		227
Oct-08	45	5	2	187		239
Nov-08	45	7	2	197		251
Dec-08	45	5	2	187		239
Jan-09	39	8	2	124		173
Feb-09	34	8	2	122		164
Mar-09	35	8	2	122		166
Apr-09	32	6	1	119		158
May-09	45	7	2	201		254
Jun-09	39	5	1	157		202
Jul-09	38	5	1	152		196
Aug-09	39	7	2	202		250
Sep-09	36	6	2	223		267
Oct-09	36	8	2	206		251
Nov-09	32	7	1	167		208
Dec-09	32	8	1	171		212
Jan-10	34	8	1	175		219
Feb-10	30	7	1	161		198
Mar-10	33	7	1	173		214
Apr-10	33	7	1	175		216
May-10	33	7	1	176		217
Jun-10	29	6	1	130		165
Jul-10	20	7	1	171		200
Aug-10	23	7	1	188		220
Sep-10	21	6	1	148		177
Oct-10	24	7	2	185		218
Nov-10	18	6	2	151		176
Dec-10	26	6	2	164		198
Jan-11	25	6	2	163		195
Feb-11	25	7	2	165		198
Mar-11	27	8	2	174		209
Apr-11	22	6	1	143		171
May-11	20	5	1	138		164
Jun-11	17	5	1	104		127
Jul-11	15	4	1	92		112
Aug-11	14	2	1	80		97
Sep-11	16	6	1	98		121
Oct-11	17	6	1	113		137
Nov-11	33	6	1	105		145
Dec-11	45	6	1	98		150
Jan-12	46	6	1	103		156
Feb-12	40	5	1	89		135
Mar-12	43	5	1	94	0.017	142
Apr-12	47	6	1	105	0.000	159
May-12	47	6	1	100	0.000	154
Jun-12	42	6	0.3	99	0.029	148
Jul-12	30	6	0.1	102	0.000	138

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Aug-12	29	6	0.0	75	0.000	109
Sep-12	32	5	0.1	62	0.029	100
Oct-12	27	5	0.0	57	0.000	88
Nov-12	33	4	0.0	62	0.000	99
Dec-12	31	3	0.0	52	0.020	86
Jan-13	46	3	0.0	54	0.000	103
Feb-13	46	3	0.0	47	0.000	95
Mar-13	53	3	0.0	53	0.029	109
Apr-13	46	5	0.1	61	0.000	113
May-13	57	8	1.0	60	0.000	126
Jun-13	43	7	0.7	52	0.029	102
Jul-13	57	9	0.9	61	0.000	128
Aug-13	48	7	0.8	63	0.000	120
Sep-13	46	7	0.6	60	0.023	113
Oct-13	46	7	0.8	61	0.000	115
Nov-13	52	7	0.7	57	0.000	117
Dec-13	57	8	1.0	72	0.026	138
Jan-14	47	8	0.7	66	0.000	122
Feb-14	37	7	0.4	48	0.000	92
Mar-14	42	6	0.5	58	0.025	107
Apr-14	44	6	0.4	58	0.000	108
May-14	46	6	0.4	61	0.000	113
Jun-14	38	5	0.3	34	0.019	77
Jul-14	41	4	0.3	32	0.000	78
Aug-14	42	4	0.4	33	0.000	79
Sep-14	39	3	0.3	33	0.020	76
Oct-14	42	3	0.3	33	0.000	79
Nov-14	46	3	0.3	33	0.000	82
Dec-14	50	3	0.3	37	0.000	90
Jan-15	45	2	0.3	32	0.016	80
Feb-15	41	2	0.3	28	0.000	72
Mar-15	46	2	0.5	29	0.027	77
Apr-15	49	2	0.4	29	0.000	80
May-15	47	3	0.3	29	0.000	79
Jun-15	42	5	0.3	33	0.019	81
Jul-15	38	6	0.4	30	0.000	74
Aug-15	44	7	0.7	34	0.000	86
Sep-15	42	7	1.2	33	0.013	82
Oct-15	46	6	1.0	34	0.000	88
Nov-15	46	6	1.3	35	0.000	88
Dec-15	44	5	1.1	35	0.018	85
Jan-16	46	4	1.1	33	0.000	84
Feb-16	43	4	0.8	27	0.000	74
Mar-16	41	6	0.6	33	0.016	80
Apr-16	41	7	0.1	33	0.000	82
May-16	45	7	0.0	36	0.000	87
Jun-16	44	7	0.1	34	0.018	85
Jul-16	44	7	0.4	36	0.000	88

MASS REDUCTION SUMMARY Mass Removed Per Month (lb)						
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Aug-16	42	7	0.1	34	0.000	83
Sep-16	38	5	0.9	32	0.021	77
Oct-16	40	5	0.9	31	0.000	77
Nov-16	41	6	0.1	33	0.000	79
Dec-16	43	6	0.2	33	0.017	82
Jan-17	44	6	0.8	36	0.000	87
Feb-17	36	5	0.6	29	0.000	71
Mar-17	39	5	0.6	33	0.017	78
Apr-17	34	5	0.3	31	0.000	70
May-17	32	5	0.5	27	0.000	64
Jun-17	31	4	0.3	26	0.018	61
Jul-17	32	5	0.1	36	0.000	73
Aug-17	29	6	0.0	37	0.000	71
Sep-17	31	5	0.0	27	0.033	63
Oct-17	36	4	0.2	28	0.000	67
Nov-17	34	5	0.7	28	0.000	68
Dec-17	32	5	0.8	28	0.020	65
Jan-18	36	6	0.9	32	0.000	75
Feb-18	28	4	0.5	26	0.000	59
Mar-18	37	4	0.6	34	0.019	75
Apr-18	33	4	0.7	31	0.000	68
May-18	36	4	0.5	35	0.000	75
Jun-18	33	4	0.4	32	0.016	70
Jul-18	33	4	0.3	32	0.000	69
Aug-18	31	4	0.4	33	0.000	68
Sep-18	33	3	0.5	34	0.020	71
Oct-18	39	3	0.6	34	0.000	77
Nov-18	32	3	0.6	33	0.000	69
Dec-18	37	0.8	0.6	35	0.021	73
Jan-19	36	4	0.6	37	0.000	77
Feb-19	26	5	0.4	27	0.000	59
Mar-19	28	6	0.3	31	0.009	65
Apr-19	31	7	0.4	32	0.000	70
May-19	30	6	0.2	33	0.000	70
Jun-19	27	5	0.1	28	0.019	61
Jul-19	33	8	0.2	30	0.000	71
Aug-19	39	8	0.3	31	0.000	78
Sep-19	33	8	0.4	29	0.021	70
Oct-19	33	6	0.0	29	0.000	68
Nov-19	33	6	0.2	27	0.000	67
Dec-19	33	6	0.5	29	0.018	68
Jan-20	25	5	0.4	43	0.000	73
Feb-20	27	7	0.5	31	0.000	65
Mar-20	29	6	0.4	31	0.015	66
Apr-20	28	6	0.3	29	0	63
May-20	28	7	0.3	32	0	68
Jun-20	29	6	0.2	31	0.018	66
Jul-20	33	5	0.2	33	0	71

MASS REDUCTION SUMMARY Mass Removed Per Month (lb)						
A	B	C	D	E	F	G
Month	Mass Removed from Unit E Only	Mass Removed from Southwest Only	Mass Removed from Marshy Only	Mass Removed from Units C3 and D2 Only	Mass Removed from Unit D0	Total Mass Removed from Units E, D2, C3, D0, Southwest and Marshy
Aug-20	33	6	0.2	28	0	67
Sep-20	28	6	0.2	29	0.013	63
Oct-20	32	7	0.3	31	0	70
Nov-20	35	7	0.3	31	0	73
Dec-20	31	6	0.3	24	0.014	61
Jan-21	30	6	0.3	28	0.000	64
Feb-21	27	6	0.3	28	0.000	61
Mar-21	27	6	0.3	26	0.012	60
Apr-21	27	8	0.2	29	0.000	65
May-21	25	7	0.3	36	0.000	68
Jun-21	24	6	1.1	37	0.006	68
Jul-21	23	6	0.9	36	0.000	66
Aug-21	16	4	0.3	31	0.000	52
Sep-21	20	6	0.5	30	0.014	57
Oct-21	23	6	0.5	43	0.000	73
Nov-21	22	6	0.5	39	0.000	67
Dec-21	23	6	0.6	36	0.000	66
Total to date	**9865**	**1616**	**565**	**62511**	**1**	**74557**