

BORING LOG

Site Name: LCP Chemicals Site, Brunswick GA
 Boring No: SW-204
 Diameter: 8 inches
 Date: 09/25/2015 - 09/26/2015



Northing (ft): 431998.84
 Easting (ft): 861925.99
 Elevation (ft): 11.5
 Total Depth: 50.4 FT

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth FT	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
30								
35								
40		12-13-17-14		0.1	0.000	SM	Gray medium SAND, loose.	
		16-18-23-19		0.0	0.000	SM	Gray medium-fine SAND, medium loose.	
45		9-9-9-10		0.0	0.000			

BORING LOG



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 Boring No: SW-204
 Diameter: 8 inches
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Depth FT	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
45			9-9-9-10	0.0	0.000	SM	Gray medium-fine SAND, medium loose.	
			8-10-11-15	0.2	0.000	SM	Gray medium-fine SAND, trace silt, medium loose.	
			11-17-16-17	4.6	0.000	ML	Gray SILT, trace clay, stiff.	
50 50.4			50/5 in					

Hand cleared to 5 ft, Refusal at 50.4 ft. Well set at 47.5 ft (2 ft of screen).

BORING LOG

Site Name: LCP Chemicals Site, Brunswick GA
 Boring No: SW-205
 Diameter: 8 inches
 Date: 09/25/2015



Northing (ft): 432046.28
 Easting (ft): 861932.46
 Elevation (ft): 12.0
 Total Depth: 50.0 FT

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth FT	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
30								
35								
40		10-17-13-15		0.7	0.000	SM	Gray fine-medium SAND.	
		12-15-19-18		0.0	0.000	SM	Brown fine SAND.	
		10-12-14-15		0.0	0.000	SM	Gray fine-medium SAND.	
45								

BORING LOG

Site Name: LCP Chemicals Site, Brunswick GA
 Boring No: SW-205
 Diameter: 8 inches
 Date: 09/25/2015



Northing (ft): 432046.28
 Easting (ft): 861932.46
 Elevation (ft): 12.0
 Total Depth: 50.0 FT

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth FT	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
45			10-12-14-15	0.0	0.000	SM	Gray fine-medium SAND.	
			11-13-12-13	0.0	0.000			
			6-5-7-12	0.0	0.000	CL/ML	Gray CLAY with thin (1/8 in) lenses of silt.	
50.0								

Hand cleared to 5 ft, Refusal at 50 ft. Well set at 48 ft (2 ft of screen).

BORING LOG

Site Name: LCP Chemicals Site, Brunswick GA

Boring No: SW-206

Diameter: 8 inches

Date: 09/24/2015 - 09/25/2015



Northing (ft): 432097.25
 Easting (ft): 861938.56
 Elevation (ft): 11.8
 Total Depth: 52.0 Ft

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth Ft	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
30								
35								
40		14-14-15-15		4.7	0.000	SM	Lt gray medium SAND, loose, petroleum odor.	
		11-11-12-15		0.3	0.000	SM	Gray medium-coarse SAND, loose.	
45		12-12-15-17		0.0	0.000			

BORING LOG

Site Name: LCP Chemicals Site, Brunswick GA

Boring No: SW-206

Diameter: 8 inches

Date: 09/24/2015 - 09/25/2015



Northing (ft): 432097.25
 Easting (ft): 861938.56
 Elevation (ft): 11.8
 Total Depth: 52.0 Ft

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth Ft	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
45			12-12-15-17	0.0	0.000	SM	Gray medium-coarse SAND, loose.	
			14-11-17-19	0.3	0.000	SM	Dark gray medium coarse SAND, trace silt, loose.	
			6-6-5-9	0.0	0.000	ML	Gray SILT with some very fine sand.	
50			2-2-4-9	0.0	0.000	CL	Gray CLAY, plastic.	
52.0								

Hand cleared to 5 ft, Refusal at 52 ft. Well set at 47.5 ft (2 ft of screen).

BORING LOG

Site Name: LCP Chemicals Site, Brunswick GA
 Boring No: SW-207
 Diameter: 8 inches
 Date: 09/24/2015



Northing (ft): 432144.07
 Easting (ft): 861946.07
 Elevation (ft): 11.8
 Total Depth: 56.1 FT

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth FT	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
45			9-9-17-19	0.0	0.000	SM	Gray medium-fine SAND, medium dense.	
			16-14-15-17	5.7	0.000			
			13-12-14-14	14.4	0.000			
50			6-12-11-7	7.6	0.000			
			7-12-15-15	0.0	0.000	SM	Dark gray fine-medium SAND, w. lenses of plastic clay.	
			5-4-20-27	0.0	0.000	SM/CL	Dark gray medium SAND and CLAY, soft.	
55						SM	Brownish gray SAND, some clay, soft.	
56.1			50/1 in					

Hand cleared to 5 ft, Refusal at 56.1 ft. Well set at 52 ft (2 ft of screen).

BORING LOG



Site Name: LCP Chemicals Site, Brunswick GA
 Boring No: SW-208
 Diameter: 8 inches
 Date: 09/23/2015 - 09/24/2015

Northing (ft): 432195.42
 Easting (ft): 861952.38
 Elevation (ft): 11.6
 Total Depth: 54.0 FT

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth FT	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
45			10-13-16-16	0.3	0.000	SM	Gray medium SAND, loose, slight petroleum odor.	
			13-11-13-18	2.4	0.000			
			17-14-15-20	0.2	0.000	SM	As above, dense, no odor.	
50			16-20-17-20	67.7	0.000	SM	As above, petroleum odor.	
			16-20-17-20	0.8	0.000	CL	Gray CLAY.	

54.0

Hand cleared to 2 ft (6 in concrete slab), Refusal at 54 ft. Well set at 52 ft (2 ft of screen).

BORING LOG



Site Name: LCP Chemicals Site, Brunswick GA
 Boring No: SW-209
 Diameter: 8 inches
 Date: 09/23/2015 - 09/24/2015

Northing (ft): 432245.44
 Easting (ft): 861957.00
 Elevation (ft): 11.3
 Total Depth: 52.0 FT

Driller: Groundwater Protection Inc
 Method: Mud Rotary
 Consultant: PARSONS
 Project No: 448517

Datum: NAVD88
 Coordinate System:
 NAD 1983 State Plane
 Georgia East / FIPS 1001

Depth FT	Recov	Sample ID	Blow Count	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Well Construction Diagram
45			12-17-18-11	0.0	0.000	SM	Yellow with orange medium SAND, loose.	
			12-8-12-16	0.0	0.000	SM	Gray medium-coarse SAND, 2 in gray clay lense at bottom sample.	
			5-13-17-15	0.0	0.000	SM	Gray fine-medium SAND, trace silt.	
50			WH-WH-5-13	0.0	0.000	CL	Gray CLAY, medium plastic.	

52.0

Hand cleared to 2 ft (1 ft concrete slab), Refusal at 52 ft. Well set at 50 ft (2 ft of screen).

Appendix B:

Well Development Logs

Sparge Well Drilling Summary Sheet, LCP Chemicals Site, Brunswick, GA

SW#	Ground Surface Elevation (ft. NAVD88)	Total Depth of Boring (ft)	Depth to begin split spoon (ft. bgs)	Estimated Depth to Sandstone (ft. bgs)	Actual Depth to Sandstone (ft. bgs)	Screen Interval (ft. bgs)	Screen Lithology	Date Completed	Supervising Geologist	Well Development				
										Total Purge Volume (gal)	Final pH	Final Conductivity (mS/cm)	Final Turbidity (NTU)	Date Developed
146	8.0	48.7	41.9	47.9	48.7	46.5-48.5	Medium SAND, Trace Silt, Trace Fine Gravel	9/13/15	LW	70	9.94	64.28	5.52	9/14/15
147	7.8	48.2	41.6	47.6	48.2	46-48	Medium SAND	9/14/15	LW	80	10.31	62.25	5.55	9/14/15
148	9.0	48.5	43.0	49.0	48.5	46-48	Fine SAND	9/13/15	LW	70	9.66	65.04	1.87	9/14/15
149	9.5	50.4	43.3	49.3	50.4	48.4-50.4	Fine to Med SAND, Trace Silt, trace gravel	9/11/15	GG	70	9.68	69.54	1.94	9/12/15
150	9.2	49.0	42.8	48.8	49	46.5-48.5	Fine To Med SAND Sand, shells	9/11/15	GG	70	11.13	71.33	1.58	9/13/15
151	6.8	46.5	41.3	47.3	46.5	44.5-46.5	Med to Coarse SAND Trace Fine Gravel, Many Shells	9/24/15	GG	70	11.34	45.17	12.6	9/30/15
152	7.0	48.0	41.7	47.7	48	45.5-47.5	Medium to coarse SAND with shell fragments, petroleum residue visible	9/23/15	GG	30	11.33	43.42	19.1	9/24/15
153	8.6	49.5	42.4	48.4	49.5	47.5-49.5	Fine To Med SAND Sand Trace Silt	9/11/15	LW	70	9.75	68.6	2.36	9/12/15
154	8.7	48.6	42.5	48.5	48.6	45.5-47.5	Fine To Med SAND Sand Trace Silt	9/11/15	LW	70	9.77	75.21	3.88	9/12/15
155	9.1	52.0	42.7	48.7	52	47-49	Medium SAND, Trace Silt, Shell fragments	9/11/15	GG	25	9.5	27.45	28.6	9/14/15
156	9.2	49.1	42.8	48.8	49.1	47-49	med-coarse SAND, Trace Silt	9/12/15	GG	70	10.47	50.69	8.08	9/13/15
157	9.1	48.5	43.2	49.2	48.5	46.5-48.5	fine to Med SAND, trace silt	9/14/15	GG	70	11.02	54.35	4.55	9/15/15
158	8.5	49.5	42.8	48.8	49.5	47.5-49.5	Med To Coarse SAND, trace fine sand	9/24/15	GG	75	11.34	50.74	3.24	9/27/15
159	7.6	48.5	42.6	48.6	48.5	46.5-48.5	Med SAND, Trace Silt	9/23/15	GG	80	11.6	51.54	10.2	9/24/15
160	8.4	49.0	42.2	48.2	49	47-49	Fine to Medium SAND, Shell fragments	9/12/15	LW	70	10.96	77.45	3.06	9/15/15
161	8.3	50.1	42.0	48.0	50.1	48-50	Fine to Med SAND, Trace Silt, Shell fragments	9/10/15	LW	70	9.5	79.46	32.8	9/11/15
162	8.4	49.5	42.0	48.0	49.5	47.5-49.5	Very Fine SAND trace Silt	9/9/15	GG	70	11.31	76.75	0.63	9/11/15
163	9.3	49.5	43.0	49.0	49.5	47-49	Fine to Med SAND, Trace Fine Gravel, Trace Silt	9/12/15	GG	70	11.24	57.57	2.34	9/13/15
164	10.6	51.5	44.6	50.6	51.5	49.5-51.5	Med to Coarse SAND, Trace silt, shells	9/25/15	GG	50	11.39	58.67	3.72	9/28/15
165	9.3	49.5	43.8	49.8	49.5	47.5-49.5	Med to Coarse SAND, Some fine to Very Fine Sand	9/24/15	GG	70	8.03	53.81	3.48	9/27/15
166	7.9	49.5	40.0	48.8	49.5	47.5-49.5	Med to Coarse SAND trace Fine Gravel	9/25/15	GG	70	6.57	51.71	15.4	9/27/15
167	8.2	50.5	43.3	49.3	50.5	48.5-50.5	Med to Coarse SAND, Little Fine Gravel, shells	9/23/15	GG	80	8.7	47.9	24.2	9/24/15
168	7.6	48.3	41.5	47.5	48.25	46-48	Fine to Medium SAND, some Coarse, Trace gravel	9/14/15	LW	30	11.3	75.58	28.8	9/15/15
169	7.8	48.8	41.6	47.6	48.75	46.5-48.5	Fine to Med SAND, Trace Fine Gravel, Shell fragments	9/12/15	LW	70	9.14	81.25	6.08	9/14/15
170	8.8	50.5	38.0	48.6	50.5	48.5-50.5	Coarse to Fine SAND, Trace Silt, Shells	9/9/15	GG	21	10.72	75.27	Overrange	9/10/15
171	10.0	49.8	43.9	49.9	49.8	47.5-49.5	Fine to Med SAND Trace Silt, shells	9/13/15	GG	50	9.44	65.93	3.49	9/14/15
172	8.8	49.0	42.9	48.9	49	47-49	Fine to Med SAND Trace Silt, shells	9/14/15	GG	80	10.7	62.25	19.5	9/15/15
173	8.3	49.1	42.1	48.1	49.1	47-49	Med SAND Trace Silt	9/15/15	LW	70	5.94	46.46	1.73	9/16/15
174	7.9	50.5	43.3	49.3	50.5	48.5-50.5	Fine SAND, trace silt, trace shell fragments	9/29/15	LW	70	9.14	92.67	5.27	9/30/15

Sparge Well Drilling Summary Sheet, LCP Chemicals Site, Brunswick, GA

SW#	Ground Surface Elevation (ft. NAVD88)	Total Depth of Boring (ft)	Depth to begin split spoon (ft. bgs)	Estimated Depth to Sandstone (ft. bgs)	Actual Depth to Sandstone (ft. bgs)	Screen Interval (ft. bgs)	Screen Lithology	Date Completed	Supervising Geologist	Well Development				
										Total Purge Volume (gal)	Final pH	Final Conductivity (mS/cm)	Final Turbidity (NTU)	Date Developed
175	8.0	50.0	42.7	48.7	50	48-50	Fine to Med Sand, some coarse SAND, trace silt, shell fragments	9/26/15	GG	70	9.34	95.2	2.16	9/28/15
176	8.6	47.3	42.7	48.7	47.25	45-47	Med SAND, Trace Silt, shells	9/26/15	GG	70	8.33	73.69	3.47	9/28/15
177	9.2	52.1	42.9	48.9	52.1	50-52	Medium SAND, trace silt, trace shell fragments, some coarse SAND	9/15/15	LW	60	9.3	37.33	4.68	9/16/15
178	9.0	52.0	43.0	49.0	52	50-52	Med - Coarse SAND, Little Fine gravel	9/28/15	LW	70	8.39	89.5	4.43	9/30/15
179	8.3	49.3	43.9	49.9	49.25	47-49	Fine to Med SAND Trace Shells	9/28/15	GG	70	10.7	80.47	3.36	9/29/15
180	8.7	49.0	42.7	48.7	49	47-49	Med SAND, Trace Silt, shells	9/16/15	GG	70	6.65	56.41	93.6	9/22/15
181	8.7	50.5	43.0	49.0	50.5	48.5-50.5	Fine to Med SAND, little coarse sand, Trace Silt, shells	9/15/15	GG	80	8.52	95.65	19.5	9/16/15
182	9.2	52.0	43.0	49.0	52	50-52	med to coarse SAND, Trace Silt, Trace Gravel, shells	9/16/15	GG	70	6.35	17.78	3.59	9/22/15
183	9.1	52.0	43.5	49.5	52	50-52	Fine to Med SAND, Trace Silt, Trace Fine Gravel, shells	9/15/15	GG	80	8.57	96.62	13.8	9/16/15
184	9.2	54.0	40.0	49.2	54	52-54	Fine To Med SAND, Trace Silt	9/23/15	RFC	70	6.83	9.75	4.25	9/22/15
185	9.2	52.0	43.4	49.4	52	50-52	Med to Fine SAND, Trace Silt, shells	9/17/15	RFC	70	7.3	48.25	316	9/22/15
186	9.6	53.5	40.0	50.2	53.5	51.25-53.25	Fine to Med SAND, CLAY	9/26/15	GG	70	8	34.25	overrange	9/28/15
187	9.8	52.5	44.9	50.9	52.5	50-52	Fine to Coarse SAND, Trace Silt, Trace Silt	9/21/15	GG	50	7.33	72.32	12.7	9/23/15
188	9.9	52.0	45.3	51.3	52	50-52	Coarse SAND Silt, Some Med Sand, Trace Silt, shells	9/22/15	GG	75	7.4	89.95	16.5	9/23/15
189	9.7	52.7	43.8	49.8	52.67	46-48	Very fine to med SAND, trace silt, trace fine gravel	9/22/15	LW	70	10.62	71.39	9.22	9/23/15
190	9.8	53.4	44.7	50.7	53.4	49-51	Med SAND, Silt, Clay	9/22/15	LW	70	9.99	72.01	overrange	9/23/15
191	10.3	52.0	45.3	51.3	52	50-52	Coarse SAND Silt, Some Med Sand, Trace Silt, shells	9/22/15	GG	80	8.87	59.11	36.4	9/23/15
192	10.5	50.5	45.2	51.2	50.5	48.5-50.5	Med to Coarse SAND, some fine gravel, trace silt, Trace Gravel	9/27/15	GG	70	8.7	34.13	35.8	9/29/15
193	9.9	54.5	40.0	50.1	54.5	52.5-54.5	Med to Coarse SAND, Trace Shells	9/23/15	LW	50	8.69	73.8	787	9/22/15
194	10.0	52.0	45.0	51.0	52	47-49	SILT, CLAY, medium SAND	9/22/15	LW	70	9.21	73.91	2.26	9/23/15
195	10.1	51.5	45.2	51.2	51.5	49.5-51.5	Med- Coarse SAND, trace fine sand and silt	9/22/15	GG	70	6.55	79.99	32.1	9/23/15
196	8.4	49.5	40.0	49.0	49.5	47.5-49.5	Med to Fine SAND, trace silt, Trace Fine Gravel	9/28/15	GG	40	11.28	56.55	58.7	9/29/15
197	8.3	49.0	40.0	49.1	49	47-49	Fine to Med, some Coarse SAND	9/29/15	GG	40	11.32	54.9	34.1	9/30/15
198	11.6	51.8	40.0	53.1	51.75	46-48	Med to Coarse SAND	9/27/15	LW	70	11.41	33.58	202	10/1/15
199	9.5	47.5	40.0	50.8	47.5	45-47	No recovery / Fine to Med SAND, trace silt	9/29/15	GG	30	9.3	76.54	248	9/30/15
200	12.7	53.1	40.0	54.6	53.1	51-53	SILT, fine SAND, trac shell fragments	9/28/15	LW	75	9.85	53.63	-	10/1/15
201	12.8	55.1	40.0	54.6	55.1	53-55	Fine SAND, Trace Silt	9/27/15	LW	70	9.71	77.14	-	10/1/15
202	12.5	51.0	40.0	54.3	51	45.5-47.5	med SAND, some fine SAND	9/26/15	LW	60	11.51	22.13	-	9/30/15
203	12.3	51.3	40.0	54.1	51.25	46-48	Fine to Med SAND, some coarse SAND	9/26/15	LW	70	11.89	42.09	-	9/30/15

Sparge Well Drilling Summary Sheet, LCP Chemicals Site, Brunswick, GA

SW#	Ground Surface Elevation (ft. NAVD88)	Total Depth of Boring (ft)	Depth to begin split spoon (ft. bgs)	Estimated Depth to Sandstone (ft. bgs)	Actual Depth to Sandstone (ft. bgs)	Screen Interval (ft. bgs)	Screen Lithology	Date Completed	Supervising Geologist	Well Development				
										Total Purge Volume (gal)	Final pH	Final Conductivity (mS/cm)	Final Turbidity (NTU)	Date Developed
204	11.5	50.4	40.0	53.4	50.4	45.5-47.5	Med to Fine SAND, trace Silt	9/25/15	LW	75	11.85	25.94	—	9/30/15
205	12.0	50.0	40.0	54.0	50	46-48	Fine to Med SAND	9/25/15	LW	30	11.98	38.92	—	9/29/15
206	11.8	52.0	40.0	53.9	52	45.5-47.5	Med to Coarse SAND	9/24/15	LW	70	11.59	18.36	—	9/29/15
207	11.8	56.1	40.0	54.1	56.1	50-52	Med to Fine SAND, trace Silt	9/24/15	LW	40	11.85	44.71	—	9/29/15
208	11.6	54.0	40.0	54.1	54	50-52	Med SAND	9/23/15	LW	70	11.68	88.94	25.2	9/28/15
209	11.3	52.0	40.0	53.9	52	48-50	Fine to Coarse SAND	9/23/15	LW	75	11.74	56.96	21.4	9/28/15

Appendix C:

Purge Logs

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site				SITE LOCATION: Brunswick, GA			
WELL NO: MW-1C		SAMPLE ID: MW-1C-100715		DATE: 10/7/2015			

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 47.7 - 52.7 feet btoc	STATIC DEPTH TO WATER 8.2 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: $1 \text{ EQUIPMENT VOL.} = (\text{TUBING CAPACITY} \times \text{TUBING LENGTH}) + \text{FLOW CELL VOLUME}$ $= (0.0026 \text{ gallons/foot} \times \mathbf{50.2} \text{ feet}) + 0.13 \text{ gallons} = \mathbf{0.26} \text{ gallons}$				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL 50.2 feet btoc		FINAL 50.2 feet btoc		9:10			9:45			1.6 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:15	0.26	0.26	150	8.28	6.60	23.08	37.49	47.6	2.96	-88.3	NM
9:20	0.25	0.50	170	8.30	6.63	26.61	38.20	NM	1.46	-114.0	NM
9:25	0.25	0.75	170	8.30	6.63	23.62	38.24	2.0	1.19	-126.6	NM
9:30	0.25	1.00	170	8.28	6.63	23.75	38.35	1.8	1.12	-133.2	NM
9:35	0.20	1.20	160	8.28	6.64	24.03	38.57	1.4	1.06	-139.5	NM
9:40	0.20	1.40	160	8.28	6.64	24.36	38.82	1.2	1.43	-144.2	NM
9:45	0.20	1.60	160	8.28	6.64	24.64	39.03	1.0	1.18	-143.8	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 9:50	SAMPLING ENDED AT: 10:05
PUMP OR TUBING DEPTH IN WELL: 50.2 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: N	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	SAMPLE PRESERVATION		SAMPLING EQUIPMENT CODE	Additional Comments
							INTENDED ANALYSIS AND/OR METHOD	IN-LINE FILTER		
MW-1C-100715	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
MW-1C-100715	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-1C-100715	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-1C-100715	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water level were stable prior to sample collection.
 Clear water with tint of yellow with bubbles.
 Sampling Time: 9:50

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable; NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-2C	SAMPLE ID: MW-2C-100715	DATE: 10/7/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 48.8 - 53.8 feet btoc	STATIC DEPTH TO WATER: 8.81 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 51.3 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:		INITIAL 51.3 feet btoc		FINAL 51.3 feet btoc		PURGING INITIATED AT: 10:20		PURGING ENDED AT: 11:17		TOTAL VOLUME PURGED: 2.4 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:25	0.26	0.26	200	9.65	6.65	23.93	44.00	122.0	5.14	-125.4	NM
10:30	0.25	0.50	180	10.61	6.60	24.50	44.53	2.6	5.29	-172.5	NM
10:35	0.20	0.70	170	10.95	6.61	25.01	45.00	1.6	3.85	-176.7	NM
10:40	0.20	0.90	170	11.25	6.63	25.52	45.40	1.2	4.87	-176.4	NM
10:45	0.20	1.10	170	11.45	6.63	25.93	45.74	1.0	5.17	-173.3	NM
10:50	0.20	1.30	170	11.63	6.64	25.82	45.43	0.9	8.35	-164.9	NM
10:55	0.20	1.50	170	11.81	6.64	25.70	45.11	0.8	4.35	-169.0	NM
11:00	0.20	1.70	170	12.02	6.64	25.69	44.71	0.8	4.62	-162.7	NM
11:05	0.20	1.90	160	12.15	6.63	25.25	43.94	0.8	2.92	-155.9	NM
11:10	0.20	2.20	160	12.22	6.63	25.33	43.81	0.8	2.82	-156.2	NM
11:15	0.20	2.40	160	12.31	6.63	25.42	43.67	0.8	2.33	-154.2	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 11:20	SAMPLING ENDED AT: 11:40
PUMP OR TUBING DEPTH IN WELL: 51.3 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-2C-100715	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-2C-100715	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-2C-100715	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-2C-100715	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water level were stable prior to sample collection.
 Clear purged water with yellow tint, no bubbles.
 Sampling Time: 11:20

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-112C	SAMPLE ID: MW-112C-100815	DATE: 10/8/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 49.6 - 51.6 feet btoc	STATIC DEPTH TO WATER: 5.5 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 50.6 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT: 10:50				PURGING ENDED AT: 11:20				TOTAL VOLUME PURGED: 1.5 gallons	
INITIAL	FINAL		DEPTH TO WATER	pH	TEMP.	SP COND.	DISSOLVED OXYGEN	TURBIDITY	ORP	SP Gravity		
50.6	50.6		(feet btoc)	(standard units)	(°C)	(mS/cm)	(% saturation)	(NTUs)	(mV)	(sg)		
VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)										
0.26	0.26	180	6.02	10.40	22.88	46.08	11.0	8.54	-384.9	NM		
0.25	0.50	180	5.95	10.75	23.28	47.17	3.0	10.6	-429.3	NM		
0.25	0.75	180	6.06	10.76	23.23	47.08	2.6	9.63	-418.2	NM		
0.25	1.00	180	5.98	10.75	23.21	47.01	2.7	9.25	-424.1	NM		
0.25	1.25	180	6.00	10.75	23.33	47.00	2.6	9.65	-463.3	NM		
0.25	1.50	180	6.01	10.74	23.28	46.85	2.7	9.61	-475.8	1.0225		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 11:25	SAMPLING ENDED AT: 11:39
PUMP OR TUBING DEPTH IN WELL: 50.6 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: N	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-112C-100815	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-112C-100815	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-112C-100815	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-112C-100815	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a dark brown color, no bubbles.
 Sampling Time: 11:25

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
 SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals				SITE LOCATION: Brunswick, GA			
WELL NO: MW-113C		SAMPLE ID: MW-113C-100815		DATE: 10/8/2015			

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 48.8 - 50.3 feet btoc	STATIC DEPTH TO WATER: 5.53 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-In-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 49.6 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT: 9:05				PURGING ENDED AT: 9:45			TOTAL VOLUME PURGED: 1.5 gallons	
INITIAL	FINAL		DEPTH TO WATER	pH	TEMP.	SP COND.	DISSOLVED OXYGEN	TURBIDITY	ORP	SP Gravity	
49.6	49.6		(feet btoc)	(standard units)	(°C)	(mS/cm)	(% saturation)	(NTUs)	(mV)	(sg)	
VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)									
0.26	0.26	180	6.84	8.59	22.22	48.06	25.1	200	-220.3	NM	
0.25	0.50	180	8.21	9.09	22.65	49.75	6.6	11.1	-262.9	NM	
0.20	0.70	150	8.21	9.08	22.91	49.70	5.8	9.58	-316.3	NM	
0.20	0.90	150	8.09	9.10	23.15	50.69	5.8	5.72	-333.7	NM	
0.20	1.10	150	7.90	9.10	23.19	50.81	4.9	5.41	-331.8	NM	
0.20	1.30	150	7.81	9.09	23.26	50.89	4.2	4.92	-293.2	NM	
0.20	1.50	150	7.82	9.09	23.36	50.99	3.9	4.57	-312.2	NM	
0.20	1.50	150	7.82	9.09	23.49	51.14	3.6	3.95	-324.8	1.0250	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova			SAMPLER(S) SIGNATURE(S) / INITIALS: TC			SAMPLING INITIATED AT: 9:50		SAMPLING ENDED AT: 10:05		
PUMP OR TUBING DEPTH IN WELL: 49.6 feet			TUBING MATERIAL CODE: Teflon-lined PE			FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter		
FIELD DECONTAMINATION:			PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time:		N	
SAMPLE CONTAINER SPECIFICATION					SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-113C-100815	1	PE	250mL	HNO ₃	--	--		6010B Metals 7470A Hg	APP	/
MW-113C-100815	1	PE	250mL	--	--	--		9040B pH 2320B Alkalinity	APP	/
MW-113C-100815	1	PE	250mL	--	--	--		6010B Dissolved Silica	APP	/
MW-113C-100815	1	PE	500mL	--	--	--		2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a brown color, no bubbles.
 Sampling Time: 9:50

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
 SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-352A	SAMPLE ID: MW-352A-100515	DATE: 10/5/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 35.3 - 36.8 feet btoc	STATIC DEPTH TO WATER: 8.25 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
= (0.0026 gallons/foot x 36.05 feet) + 0.13 gallons = 0.22 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT: 14:55		PURGING ENDED AT: 15:30		TOTAL VOLUME PURGED: 1.75 gallons					
INITIAL	FINAL	DEPTH TO WATER	pH	TEMP.	SP COND.	DISSOLVED OXYGEN	TURBIDITY	ORP	SP Gravity		
36.1 feet btoc	36.1 feet btoc	(feet btoc)	(standard units)	(°C)	(mS/cm)	(% saturation)	(NTUs)	(mV)	(sg)		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
15:00	0.25	0.25	150	8.30	6.83	22.38	7.948	21.2	14.3	-74.6	NM
15:05	0.25	0.50	150	8.27	6.69	22.35	7.720	15.1	10.7	-49.9	NM
15:10	0.25	0.75	150	8.27	6.66	22.35	7.654	15.3	6.39	-43.3	NM
15:15	0.25	1.00	150	8.27	6.64	22.44	7.612	15.3	4.53	-46.9	NM
15:20	0.25	1.25	150	8.27	6.63	22.51	7.608	14.5	4.06	-45.0	NM
15:25	0.25	1.50	150	8.26	6.63	22.65	7.613	14.3	4.34	-41.6	NM
15:30	0.25	1.75	150	8.26	6.62	22.62	7.612	14.0	4.55	-38.1	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 15:30	SAMPLING ENDED AT: 15:47
PUMP OR TUBING DEPTH IN WELL: 36.1 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N		TUBING: N (dedicated) DUPLICATE ID and time: N	
FILTRATION EQUIPMENT TYPE: In-line filter			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-352A-100515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-352A-100515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-352A-100515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-352A-100515	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters and water levels were stable prior to sample collection.
 Purge water was clear with yellow tint.
 Sampling Time: 15:30

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-352B	SAMPLE ID: MW-352B-100515	DATE: 10/5/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 51.5 - 53.5 feet btc	STATIC DEPTH TO WATER: 10.28 feet btc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 52.5 feet) + 0.13 gallons = 0.27 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT: 13:55		PURGING ENDED AT: 14:30		TOTAL VOLUME PURGED: 1.75 gallons
INITIAL: 52.5 feet btc	FINAL: 52.5 feet btc					

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
14:00	0.25	0.25	150	10.69	10.69	22.73	58.48	37.9	4.55	-316.0	NM
14:05	0.25	0.50	150	10.70	10.77	22.81	58.55	24.3	3.77	-331.2	NM
14:10	0.25	0.75	150	10.66	10.90	22.82	58.81	14.8	3.83	-334.9	NM
14:14	0.25	1.00	150	10.65	11.30	22.74	59.50	11.1	2.86	-331.9	NM
14:20	0.25	1.25	150	10.65	11.38	22.71	59.52	9.1	2.31	-331.3	NM
14:25	0.25	1.50	150	10.65	11.45	22.51	59.44	7.8	2.13	-330.5	NM
14:30	0.25	1.75	150	10.65	11.48	22.48	59.44	7.3	1.71	-330.1	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice		SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 14:30	SAMPLING ENDED AT: 14:48
PUMP OR TUBING DEPTH IN WELL: 52.5 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm	
FIELD DECONTAMINATION: N		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-352B-100515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
MW-352B-100515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-352B-100515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-352B-100515	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a dark tan color.
 Sampling Time: 14:30

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
 SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-353B	SAMPLE ID: MW-353B-100515	DATE: 10/5/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 43 - 44.5 feet btoC	STATIC DEPTH TO WATER: 5.81 feet btoC	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 43.75 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL 43.8 feet btoC		FINAL 43.8 feet btoC		PURGING INITIATED AT: 14:00			PURGING ENDED AT: 14:35			TOTAL VOLUME PURGED: 1.75 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoC)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
14:03	0.25	0.25	200	5.88	9.35	24.11	39.73	30.8	9.20	-341.4	NM
14:08	0.25	0.50	200	5.88	9.51	23.78	45.33	3.2	10.00	-394.6	NM
14:13	0.20	0.75	180	5.88	9.49	23.75	45.11	2.2	9.60	-410.4	NM
14:18	0.20	1.00	180	5.90	9.46	23.67	44.55	1.8	9.12	-418.6	NM
14:23	0.25	1.25	180	5.90	9.43	23.58	44.00	1.5	9.22	-427.5	NM
14:28	0.25	1.50	180	5.90	9.51	23.49	43.64	1.2	8.39	-434.2	NM
14:33	0.25	1.75	180	5.91	9.52	23.44	43.44	0.8	9.14	-441.3	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 14:40	SAMPLING ENDED AT: 14:55
PUMP OR TUBING DEPTH IN WELL: 43.8 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N FILTER SIZE: 0.45 μm	FILTRATION EQUIPMENT TYPE: In-line filter
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-353B-100515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
MW-353B-100515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-353B-100515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-353B-100515	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a dark brown color.
 Sampling Time: 14:40

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-357A	SAMPLE ID: MW-357A-101315	DATE: 10/13/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 41.3 - 42.8 feet btoc	STATIC DEPTH TO WATER: 6.19 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 42 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	11:05		16:10		15.85					
42 feet btoc	42 feet btoc					gallons					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:10	0.25	0.25	180	7.12	6.74	24.71	2.319	107.8	5.02	-199.00	NM
11:15	0.25	0.50	180	8.81	6.36	25.17	1.798	6.3	7.50	-222.3	NM
11:20	0.25	0.75	160	9.13	6.33	25.73	1.753	4.6	3.05	-226.9	NM
11:25	0.20	0.95	160	9.74	6.36	25.79	2.721	3.4	6.54	-223.8	NM
11:30	0.20	1.15	160	10.30	6.38	25.76	3.128	2.1	7.47	-227.7	NM

At 11:30 start contingent purge method, 1 well volume = 5.2 gallons after 2 well volumes collect reading at 15:10 10/13/15

15:10	0.25	13.25	200	16.89	6.52	26.37	10.60	6.5	5.76	-119.1	NM
15:15	0.20	13.45	200	16.89	6.48	26.06	10.63	6.1	4.72	-144.7	NM
15:20	0.20	13.65	200	16.89	6.48	25.89	10.62	5.1	5.60	-161.2	NM
15:25	0.25	13.90	200	16.81	6.48	25.90	10.64	4.4	4.72	-152.6	NM
15:30	0.20	14.10	200	16.83	6.48	25.77	10.60	4.1	4.74	-165.8	NM
15:35	0.20	14.30	200	16.80	6.48	25.74	10.61	3.9	4.52	-177.2	NM
15:40	0.20	14.50	200	16.81	6.48	25.79	10.61	3.7	4.55	-183.3	NM
15:45	0.25	14.75	200	16.81	6.48	25.77	10.61	3.4	4.39	-167.5	NM
15:50	0.20	14.95	200	16.75	6.48	25.92	10.65	3.1	5.59	-173.8	NM
15:55	0.25	15.20	200	16.76	6.48	25.70	10.60	2.9	4.57	-186.4	NM
16:00	0.20	15.40	200	16.78	6.48	25.80	10.63	2.7	5.06	-194.4	NM
16:05	0.20	15.60	200	16.80	6.48	25.93	10.65	2.5	4.55	-176.5	NM
16:10	0.25	15.85	200	16.80	6.48	25.85	10.65	2.2	4.55	-164.3	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 16:15	SAMPLING ENDED AT: 16:30
PUMP OR TUBING DEPTH IN WELL: 42 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-357A-101315	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-357A-101315	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-357A-101315	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-357A-101315	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, water levels were not stabilizing, switch to contingent purge method. Three well volumes (15.85 gallons) were purged. Field parameters were stable prior to sample collection. Purge water had a brown color. Sampling Time: 16:15

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site	SITE LOCATION: Brunswick, GA
WELL NO: MW-357B	SAMPLE ID: MW-357B-101415
	DATE: 10/14/2015

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 49.2 - 50.7 feet btoc	STATIC DEPTH TO WATER: 5.93 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 49.95 feet) + 0.13 gallons = 0.26 gallons				

TIME	PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT: 8:35			PURGING ENDED AT: 9:20			TOTAL VOLUME PURGED: 2 gallons		
	INITIAL 50.0 feet btoc	FINAL 50.0 feet btoc	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)	
8:40	0.25	0.25	200	7.41	6.22	23.24	0.518	73.7	7.24	-19.9	NM
8:45	0.25	0.50	180	7.92	6.06	23.66	0.286	25.3	4.98	-27.6	NM
8:50	0.25	0.75	180	8.32	6.05	23.91	0.289	25.1	4.98	-21.2	NM
8:55	0.25	1.00	150	8.30	6.05	23.93	0.292	23.2	4.51	-21.8	NM
9:00	0.20	1.25	150	8.30	6.02	24.07	0.305	19.5	3.88	-20.2	NM
9:05	0.20	1.45	150	8.33	6.04	24.25	0.420	19.3	4.52	-26.4	NM
9:10	0.20	1.65	150	8.34	6.11	24.31	0.611	17.3	4.03	-38.8	NM
9:15	0.20	1.85	150	8.34	6.13	24.38	0.948	14.3	3.79	-48.5	NM
9:20	0.20	1.95	150	8.35	6.18	24.38	1.142	13.5	3.92	-52.2	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 9:20	SAMPLING ENDED AT: 9:35
PUMP OR TUBING DEPTH IN WELL: 50.0 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N FILTER SIZE: 0.45 μm	FILTRATION EQUIPMENT TYPE: In-line filter
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated) DUPLICATE ID and time: N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-357B-101415	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-357B-101415	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-357B-101415	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-357B-101415	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters and water levels were stable prior to sample collection.
Purge water was clear with yellow tint.
Sampling Time: 9:20

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

Table with 4 columns: SITE NAME: LCP Chemicals Site, SITE LOCATION: Brunswick, GA, WELL NO: MW-358B, SAMPLE ID: MW-358B-100815, DATE: 10/8/2015

PURGING DATA

Table with 5 columns: WELL DIAMETER (2 inches), TUBING DIAMETER (1/4 inch), WELL SCREEN INTERVAL DEPTH (40 - 41.5 feet btoC), STATIC DEPTH TO WATER (6.71 feet btoC), PURGE PUMP TYPE OR BAILER: PP

Large data table with 12 columns: TIME, VOLUME PURGED, CUMUL. VOLUME PURGED, PURGE RATE, DEPTH TO WATER, pH, TEMP., SP COND., DISSOLVED OXYGEN, TURBIDITY, ORP, SP Gravity. Contains multiple rows of sampling data.

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

Table with 4 columns: SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova, SAMPLER(S) SIGNATURE(S) / INITIALS: TC, SAMPLING INITIATED AT: 13:15, SAMPLING ENDED AT: 13:30

Table with 10 columns: SAMPLE ID CODE, # CONTAINERS, MATERIAL CODE, VOLUME, PRESERVATIVE USED, TOTAL VOLUME ADDED IN FIELD (mL), FINAL pH, INTENDED ANALYSIS AND/OR METHOD, SAMPLING EQUIPMENT CODE, Additional Comments. Contains 4 rows of sample data.

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection. Purge water had a brown water, no bubbles. Sampling Time: 13:15

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: +/- 0.1 unit Specific Conductance: +/- 5% Dissolved Oxygen: all readings <= 10% saturation; optionally, +/- 0.2 mg/L Turbidity: all readings <= 10 NTU; or +/- 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-502A	SAMPLE ID: MW-502A-100515	DATE: 10/5/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 27.4 - 32.4 feet btoc	STATIC DEPTH TO WATER: 4.83 feet btoc	PURGE PUMP TYPE OR BAILER: PP
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Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 = (0.0026 gallons/foot x 29.9 feet) + 0.13 gallons = 0.21 gallons

PUMP OR TUBING DEPTH IN WELL:		FINAL		PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL 29.9 feet btoc		29.9 feet btoc		11:30			12:30			3 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:35	0.20	0.20	170	4.95	6.10	24.51	6.060	16.3	15.4	-130.5	NM
11:40	0.30	0.50	170	4.95	6.04	24.62	5.975	3.7	18.4	-147.5	NM
11:45	0.25	0.75	170	4.95	6.03	24.66	5.951	2.1	17.9	-161.9	NM
11:50	0.25	1.00	170	4.95	6.02	24.62	5.936	1.7	17.2	-169.1	NM
11:55	0.25	1.25	170	4.95	6.02	24.57	5.927	1.4	20.3	-173.1	NM
12:00	0.25	1.50	170	4.95	6.02	24.57	5.920	1.3	19.1	-174.4	NM
12:05	0.25	1.75	170	4.95	6.02	24.62	5.912	1.0	19.1	-176.1	NM
12:10	0.25	2.00	170	4.95	6.01	24.56	5.916	0.9	17.1	-179.5	NM
12:15	0.25	2.25	170	4.95	6.00	24.59	5.921	1.0	18.4	-161.5	NM
12:20	0.25	2.50	170	4.95	6.00	24.62	5.923	0.9	20.3	-178.7	NM
12:25	0.25	2.75	170	4.95	6.00	24.61	5.922	0.9	19.4	-183.4	NM
12:30	0.25	3.00	170	4.95	6.00	24.70	5.935	0.8	18.9	-179.0	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova		SAMPLER(S) SIGNATURE(S) / INITIALS: TC		SAMPLING INITIATED AT: 12:30	SAMPLING ENDED AT: 12:45
PUMP OR TUBING DEPTH IN WELL: 29.9 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-502A-100515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-502A-100515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-502A-100515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-502A-100515	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water was clear with a yellow tint.
 Sampling Time: 12:30

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-502B	SAMPLE ID: MW-502B-100515	DATE: 10/5/2015	

PURGING DATA					
WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 38.7 - 43.7 feet btoc	STATIC DEPTH TO WATER: 5.01 feet btoc	PURGE PUMP TYPE OR BAILER: PP	
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 41.2 feet) + 0.13 gallons = 0.24 gallons					

TIME	PUMP OR TUBING DEPTH IN WELL:		PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
	INITIAL 41.2 feet btoc	FINAL 41.2 feet btoc									
11:36			150	4.97	6.34	22.99	8.087	84.8	1.95	-26.9	NM
11:41			150	4.98	6.39	22.84	8.161	49.1	1.37	-35.4	NM
11:46			150	4.97	6.39	22.75	8.126	50.3	1.29	-36.2	NM
11:51			150	4.97	6.39	27.71	8.134	45.6	1.09	-37.3	NM
11:56			150	4.98	6.38	22.63	8.167	39.1	0.98	-39.1	NM
12:01			150	4.98	6.37	22.66	8.232	34.7	0.99	-39.2	NM
12:06			150	4.98	6.37	22.57	8.319	30.1	1.01	-37.3	1.0048

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA			
SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 12:11	SAMPLING ENDED AT: 12:30
PUMP OR TUBING DEPTH IN WELL: 41.2 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	FILTRATION EQUIPMENT TYPE: In-line filter

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-502B-100515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-502B-100515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-502B-100515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-502B-100515	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters and water levels were stable prior to sample collection.
 Purge water had a weak tea color.
 Sampling Time: 12:11

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site			SITE LOCATION: Brunswick, GA		
WELL NO: MW-503B		SAMPLE ID: MW-503B-101215		DATE: 10/12/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 39.9 - 44.9 feet btoc	STATIC DEPTH TO WATER 6.24 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 42.4 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT: 8:55				PURGING ENDED AT: 9:25			TOTAL VOLUME PURGED: 1.6 gallons	
INITIAL	FINAL										
42.4	42.4										
feet btoc	feet btoc	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
		0.25	170	6.73	8.00	23.82	3.989	100.0	5.49	-29.8	NM
		0.25	170	6.51	5.78	23.88	6.265	30.0	8.02	-65.1	NM
		0.25	170	6.49	5.68	23.95	6.016	16.4	10.01	-69.3	NM
		0.20	140	6.40	5.61	23.47	5.787	7.1	6.83	-73.0	NM
		0.20	140	6.40	5.60	23.99	5.702	5.6	6.97	-76.9	NM
		0.20	140	6.41	5.57	23.87	5.652	4.5	4.76	-70.6	NM
		0.20	140	6.40	5.56	24.01	5.644	3.9	2.31	-78.7	1.0025

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova		SAMPLER(S) SIGNATURE(S) / INITIALS: TC		SAMPLING INITIATED AT: 9:30		SAMPLING ENDED AT: 9:45	
PUMP OR TUBING DEPTH IN WELL: 42.4 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter	
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-503B-101215	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-503B-101215	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-503B-101215	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-503B-101215	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water was clear w/ yellow tint, no bubbles.
Sampling Time: 9:30

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-504A	SAMPLE ID: MW-504A-101415	DATE: 10/14/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 31.6 feet btoc	STATIC DEPTH TO WATER: 5.84 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 34.1 feet) + 0.13 gallons = 0.22 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	14:18		15:20		3 gallons					
34.1	34.1										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
14:26	0.25	0.25	150	6.03	6.35	29.07	10.23	12.0	15.1	-151.7	NM
14:30	0.25	0.50	150	6.04	6.36	29.74	10.86	9.2	16.5	-165.2	NM
14:35	0.25	0.75	150	6.02	6.36	29.84	10.94	8.7	16.8	-166.9	NM
14:40	0.25	1.00	150	6.02	6.36	30.04	10.99	7.7	16.8	-168.7	NM
14:45	0.25	1.25	150	6.02	6.36	29.99	10.96	7.4	17.1	-169.6	NM
14:50	0.25	1.50	150	6.02	6.36	30.08	11.00	6.9	17.3	-170.9	NM
14:55	0.25	1.75	150	6.02	6.36	29.96	11.00	6.6	16.6	-172.0	NM
15:00	0.25	2.00	150	6.01	6.36	29.91	11.02	6.3	16.2	-173.0	NM
15:05	0.25	2.25	150	6.01	6.36	29.74	11.01	6.1	15.8	-174	NM
15:10	0.25	2.50	150	6.01	6.36	29.71	11.04	5.7	14.9	-174.8	NM
15:15	0.25	2.75	150	6.01	6.36	29.76	11.09	5.6	14.7	-175.7	NM
15:20	0.25	3.00	150	6.01	6.37	29.68	11.17	5.4	14.6	-176.8	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice		SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 15:20	SAMPLING ENDED AT: 15:35
PUMP OR TUBING DEPTH IN WELL: 34.1 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-504A-101415	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-504A-101415	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-504A-101415	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-504A-101415	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Sampling Time: 15:20

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site	SITE LOCATION: Brunswick, GA	
WELL NO: MW-504B	SAMPLE ID: MW-504B-101415	DATE: 10/14/2015

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 41 - 46 feet btoc	STATIC DEPTH TO WATER 5.52 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 43.5 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL 43.5	FEET BTOC	FINAL 43.5	FEET BTOC	13:25	14:00					1.75	GALLONS
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
13:30	0.25	0.25	150	5.51	6.70	29.33	17.20	23.1	4.5	-95.1	NM
13:35	0.25	0.50	150	5.52	6.67	29.21	17.08	23.3	4.1	-96.8	NM
13:40	0.25	0.75	150	5.51	6.63	29.24	16.50	28.0	3.2	-98.3	NM
13:45	0.25	1.00	150	5.50	6.62	29.28	16.09	27.1	3.19	-98.0	NM
13:50	0.25	1.25	150	5.50	6.61	29.41	15.87	24.6	2.73	-97.4	NM
13:55	0.25	1.50	150	5.50	6.60	29.49	15.86	20.0	2.68	-97.5	NM
14:00	0.25	1.75	150	5.50	6.60	29.53	15.87	17.1	2.75	-97.6	1.0050

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 14:00	SAMPLING ENDED AT: 14:15
PUMP OR TUBING DEPTH IN WELL: 43.5 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N FILTER SIZE: 0.45 µm	FILTRATION EQUIPMENT TYPE: In-line filter
FIELD DECONTAMINATION: PUMP: N		TUBING: N (dedicated) DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-504B-101415	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-504B-101415	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-504B-101415	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-504B-101415	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters and water levels were stable prior to sample collection.
Purge water had a green tea (light) color.
At start purge water has lots of air bubbles.
Sampling Time: 14:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable; NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-505A	SAMPLE ID: MW-505A-100615	DATE: 10/6/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 32.8 - 37.8 feet btoc	STATIC DEPTH TO WATER: 5.8 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 35.3 feet) + 0.13 gallons = 0.22 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT: 09:40			PURGING ENDED AT: 10:40			TOTAL VOLUME PURGED: 2 gallons	
INITIAL	FINAL										
35.3	35.3										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:45	0.20	0.20	180	5.82	6.24	24.95	11.96	56.3	42.3	-187.9	NM
9:50	0.20	0.40	160	5.83	6.27	23.98	10.81	4.7	25.7	-272.5	NM
9:55	0.20	0.60	160	5.83	6.25	24.29	9.798	4.4	19.6	-221.7	NM
10:00	0.20	0.80	160	5.82	6.24	24.30	9.514	4.1	17.7	-213.9	NM
10:05	0.20	0.80	160	5.82	6.23	24.42	9.406	3.9	17.3	-215.1	NM
10:10	0.20	1.00	160	5.82	6.23	24.60	9.390	3.5	16.2	-216.0	NM
10:15	0.20	1.20	160	5.82	6.23	24.61	9.386	3.3	16.7	-216.0	NM
10:20	0.20	1.40	160	5.81	6.22	24.74	9.409	3.1	18.2	-216.6	NM
10:25	0.20	1.60	160	5.81	6.22	24.63	9.401	2.8	18.8	-219.3	NM
10:30	0.20	1.80	160	5.82	6.22	24.53	9.378	2.5	19.6	-219.5	NM
10:35	0.20	2.00	160	5.82	6.22	24.55	9.376	2.2	20.4	-211.6	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
BTOC = Below top of casing - feet below top of casing which includes above grade riser											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova		SAMPLER(S) SIGNATURE(S) / INITIALS: TC		SAMPLING INITIATED AT: 10:40	SAMPLING ENDED AT: 10:55
PUMP OR TUBING DEPTH IN WELL: 35.3 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-505A-100615	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-505A-100615	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-505A-100615	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-505A-100615	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a brown color with bubbles.
Sampling Time: 10:40

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-505B	SAMPLE ID: MW-505B-100615	DATE: 10/6/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 40.3 - 45.3 feet btoc	STATIC DEPTH TO WATER: 6.98 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-In-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 42.8 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL: 42.8 feet btoc		FINAL: 42.8 feet btoc		PURGING INITIATED AT: 11:03	PURGING ENDED AT: 13:10	TOTAL VOLUME PURGED: 4 gallons
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:08	0.25	0.25	180	7.23	6.45	24.86	14.46	11.8	121	-127.9	NM
11:13	0.25	0.50	180	7.85	6.42	24.92	14.46	2.3	126	-152.2	NM
11:18	0.20	0.70	150	8.15	6.41	24.82	14.74	0.9	124	-169.8	NM
11:23	0.20	0.90	150	8.25	6.42	24.96	15.42	0.9	120	-167.3	NM
11:28	0.20	1.10	150	8.27	6.43	24.92	16.04	0.9	107	-182.2	NM
11:33	0.20	1.30	150	8.33	6.47	24.78	18.50	0.9	72.0	-188.7	NM
11:38	0.20	1.50	150	8.31	6.46	24.47	16.58	0.8	87.2	-186.7	NM
11:43	0.20	1.70	150	8.11	6.45	24.33	15.68	0.9	83.6	-189.0	NM
11:48	0.20	1.90	150	8.06	6.47	24.52	17.37	0.9	64.4	-181.7	NM
11:53	0.20	1.10	150	8.06	6.50	24.37	19.24	0.7	47.5	-183.7	NM
11:58	0.20	1.30	150	8.06	6.51	24.35	19.58	0.7	39.3	-183.4	NM
12:03	0.20	1.50	150	8.06	6.54	24.40	21.08	0.8	34.0	-187.7	NM
12:08	0.20	1.70	150	8.06	6.52	24.25	19.44	0.9	46.8	-201.6	NM
12:13	0.20	1.90	150	8.03	6.51	24.61	19.80	0.9	32.3	-191.4	NM
12:18	0.20	2.10	150	8.02	6.55	24.82	21.31	0.8	28.3	-195.9	NM
12:23	0.20	2.30	150	8.02	6.52	24.53	18.75	0.7	43.8	-201.5	NM
12:28	0.20	2.50	150	8.00	6.46	24.33	17.53	0.7	43.7	-201.7	NM
12:33	0.20	2.70	150	8.00	6.50	24.15	19.05	0.8	35.7	-210	NM
12:38	0.20	2.90	150	8.00	6.51	24.32	19.47	0.9	32.9	-202.2	NM
12:43	0.20	3.10	150	7.94	6.51	24.41	19.87	0.9	30.4	-200	NM
12:48	0.20	3.30	150	7.85	6.52	24.56	19.94	0.9	27.2	-193.9	NM
12:53	0.20	3.50	150	7.84	6.54	24.54	20.90	0.8	26.0	-188.2	NM
12:58	0.20	3.70	150	7.84	6.53	24.3	20.55	0.8	26.3	-185.3	NM
13:03	0.20	4.00	150	7.80	6.53	24.3	20.38	0.8	28.1	-198.5	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 13:15	SAMPLING ENDED AT: 13:30
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PUMP OR TUBING DEPTH IN WELL: 42.8 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N		TUBING: N (dedicated) DUPLICATE ID and time: N	
FILTRATION EQUIPMENT TYPE: In-line filter			

FIELD DECONTAMINATION: PUMP: **N** TUBING: **N (dedicated)** DUPLICATE ID and time: **N**

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-505B-100615	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-505B-100615	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-505B-100615	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-505B-100615	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a brown color.
Sampling Time: 13:15

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen:** all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity:** all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-507B	SAMPLE ID: MW-507B-101415	DATE: 10/14/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 49.1 - 54.1 feet btoc	STATIC DEPTH TO WATER 8.53 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 51.6 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL	FINAL			09:00			09:45			2.25 gallons	
51.6	51.6										
feet btoc	feet btoc			DEPTH TO WATER	pH	TEMP.	SP COND.	DISSOLVED OXYGEN	TURBIDITY	ORP	SP Gravity
(gallons)	(gallons)			(feet btoc)	(standard units)	(°C)	(mS/cm)	(% saturation)	(NTUs)	(mV)	(sg)
09:05	0.25	0.25	150	9.18	8.81	21.45	34.10	32.5	3.86	-202.9	NM
09:10	0.25	0.50	150	9.33	8.84	21.56	36.25	93.0	1.91	-208.8	NM
09:15	0.25	0.75	150	9.27	8.85	21.64	36.73	61.5	2.77	-213.3	NM
09:20	0.25	1.00	150	9.28	8.86	21.61	37.17	50.1	3.03	-241.4	NM
09:25	0.25	1.25	150	9.27	8.87	21.58	37.12	40.5	2.30	-226.9	NM
09:30	0.25	1.50	150	9.21	8.88	21.59	37.10	38.5	2.50	-228.0	NM
09:35	0.25	1.75	150	9.19	8.90	21.63	37.07	30.5	1.86	-217.6	NM
09:40	0.25	2.00	150	9.18	8.90	21.69	37.06	28.0	2.32	-219.5	NM
09:45	0.25	2.25	150	NM	8.91	21.71	37.08	20.1	2.08	-219.6	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice				SAMPLER(S) SIGNATURE(S) / INITIALS: RR				SAMPLING INITIATED AT: 09:50		SAMPLING ENDED AT: 10:05	
PUMP OR TUBING DEPTH IN WELL: 51.6 feet			TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm			FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION:				PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: MW-507B-DUP-101415		10:00	
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				Additional Comments	
MW-507B-101415	1	PE	250mL	HNO ₃	--	--		6010B Metals 7470A Hg	APP	/	
MW-507B-101415	1	PE	250mL	--	--	--		9040B pH 2320B Alkalinity	APP	/	
MW-507B-101415	1	PE	250mL	--	--	--		6010B Dissolved Silica	APP	/	
MW-507B-101415	1	PE	500mL	--	--	--		2540C TDS	APP	/	

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters and water levels were stable prior to sample collection.
 Purge water had a tea color.
 Sampling Time: 9:50

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-508B	SAMPLE ID: MW-508B-101415	DATE: 10/14/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 49.7 - 54.7 feet btoc	STATIC DEPTH TO WATER 8.23 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 52.2 feet) + 0.13 gallons = 0.27 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL		FINAL		11:45			12:45			3 gallons	
52.2 feet btoc		52.2 feet btoc									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:50	0.25	0.25	150	8.77	8.78	24.59	52.18	290.0	5.08	-324.0	NM
11:55	0.25	0.50	150	8.78	8.80	24.87	52.55	200.0	4.83	-328.7	NM
12:00	0.25	0.75	150	8.70	8.82	25.73	53.49	131.5	4.82	-332.6	NM
12:05	0.25	1.00	150	8.68	8.80	25.23	53.89	62.0	4.36	-332.8	NM
12:10	0.25	1.25	150	8.67	8.68	26.56	54.00	47.1	4.52	-331.3	NM
12:15	0.25	1.50	150	8.63	8.41	26.76	54.01	32.1	4.12	-324.8	NM
12:20	0.25	1.75	150	8.63	8.32	27.03	54.08	33.5	3.84	-325.6	NM
12:25	0.25	2.00	150	8.63	8.21	27.03	53.87	29.0	3.73	-325.2	NM
12:30	0.25	2.25	150	8.63	8.05	26.93	53.57	26.0	3.66	-319.0	NM
12:35	0.25	2.50	150	8.63	7.89	27.03	53.56	23.1	3.50	-319.7	NM
12:40	0.25	2.75	150	8.63	7.87	27.03	53.42	18.3	3.43	-320.7	NM
12:45	0.25	3.00	150	8.64	7.83	27.07	53.45	17.5	3.37	-321.5	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 12:45	SAMPLING ENDED AT: 13:00
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PUMP OR TUBING DEPTH IN WELL: 52.2 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated) DUPLICATE ID and time: N		FILTRATION EQUIPMENT TYPE: In-line filter	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-508B-101415	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-508B-101415	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-508B-101415	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-508B-101415	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% not achieved. Per SOP, all other parameters and water levels were stable prior to sample collection.
Purge water had sulfur smell and a dark tea color.
Sampling Time: 12:45

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-510B	SAMPLE ID: MW-510B-102015	DATE: 10/12/15 and 10/20/15	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 42.7 - 47.4 feet btoc	STATIC DEPTH TO WATER: 6.73 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 45 feet) + 0.13 gallons = 0.25 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	10/12/15		10/12/15		gallons					
45 feet btoc	45 feet btoc	10:20		10:40							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:20	0.25	0.25	200	8.07	10.53	23.48	54.22	30.90	48.50	-362.70	NM
10:25	0.25	0.50	150	10.05	10.64	23.81	55.54	4.1	21.9	-430.5	NM
10:30	0.20	0.70	140	10.77	10.63	23.88	55.76	2.3	35.7	-459.9	NM
10:35	0.20	0.90	130	11.34	10.62	23.81	55.70	1.6	27.1	-469.2	NM
10:40	0.20	1.10	130	11.82							
10:40 - start contingent purge 1 well volume = 5.3 gal											
Purged ~3.0 gal water level at 24.2 pump is not drawing water from well.											
15:55 - DTW is 24.1 cannot pump water did not recharge.											
10/13/15 ~8:10 - DTW is 24.1											
16:05 - DTW is 24.2											
10/14/15 - 8:23 DTW is 24.1											
15:28 DTW is 24.3											
10/15/15 - 8:58 DTW is 24.28 could not pump, sample/readings were not collected.											
10/20/15 - 9:30 Sample collected for dissolved mercury analysis (field filtered).											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
BTOC = Below top of casing - feet below top of casing which includes above grade riser											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Churprikova, Matt Scheuer / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: TC, MJS		SAMPLING INITIATED AT: 9:30	SAMPLING ENDED AT: 9:35				
PUMP OR TUBING DEPTH IN WELL: 45 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: Y	FILTER SIZE: 0.45 µm					
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N					
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-510B-102015	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	Field filtered for diss. Hg analysis
Not sampled	0	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
Not sampled	0	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
Not sampled	0	PE	500mL	--	--	--	2540C TDS	APP	/
REMARKS: Purge water had a brown color, no bubbles. Due to lack of groundwater recovery, a sample was collected only for dissolved mercury analysis on 5/20/2015.									

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-511B	SAMPLE ID: MW-511B-100515	DATE: 10/5/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 46.6 - 51.6 feet btoc	STATIC DEPTH TO WATER 5.99 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 49.1 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL 49.1 feet btoc	FINAL 49.1 feet btoc			9:33			10:30			3 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:33	0.25	0.25	200	6.56	6.36	23.69	14.04	44.1	17.1	-70.6	NM
9:38	0.25	0.50	200	6.53	6.34	23.69	14.12	7.0	4.99	-93.7	NM
9:43	0.25	0.75	180	6.47	6.32	23.61	14.15	3.8	2.96	-102.5	NM
9:48	0.25	1.00	180	6.47	6.32	23.49	14.24	3.5	2.31	-109.1	NM
9:53	0.25	1.25	180	6.45	6.32	23.38	14.51	3.0	1.84	-114.7	NM
9:58	0.25	1.50	180	6.52	6.34	23.43	15.36	2.3	1.46	-126.5	NM
10:03	0.25	1.75	180	6.62	6.35	23.42	16.63	1.8	1.22	-131.5	NM
10:08	0.25	2.00	180	6.39	6.37	23.40	17.24	1.7	1.10	-143.7	NM
10:13	0.25	2.25	180	6.42	6.40	23.40	18.03	1.7	1.89	-153.2	NM
10:18	0.25	2.50	180	6.48	6.43	23.42	19.00	1.6	0.95	-161.9	NM
10:23	0.25	2.75	180	6.47	6.44	23.58	19.57	1.4	0.85	-168.5	NM
10:28	0.25	3.00	180	6.43	6.45	23.55	19.90	1.4	1.01	-172.0	1.0125

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova		SAMPLER(S) SIGNATURE(S) / INITIALS: TC		SAMPLING INITIATED AT: 10:30		SAMPLING ENDED AT: 10:45	
PUMP OR TUBING DEPTH IN WELL: 49.1 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter	
FIELD DECONTAMINATION:		PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time:		N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-511B-100515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-511B-100515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-511B-100515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-511B-100515	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water was clear with tint of yellow.
 Sampling Time: 10:30

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-512B	SAMPLE ID: MW-512B-101315	DATE: 10/13/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 49.1 - 54.1 feet btoc	STATIC DEPTH TO WATER: 7.41 feet btoc	PURGE PUMP TYPE OR BAILER: PP
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Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 = (0.0026 gallons/foot x **51.6** feet) + 0.13 gallons = **0.26** gallons

PUMP OR TUBING DEPTH IN WELL:		INITIAL		FINAL		PURGING INITIATED AT: 8:50			PURGING ENDED AT: 9:20			TOTAL VOLUME PURGED:
51.6 feet btoc		51.6 feet btoc								1.4 gallons		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)	
8:55	0.25	0.25	200	8.20	6.86	23.91	27.99	71.2	9.58	-45.5	NM	
9:00	0.25	0.50	200	9.06	6.84	23.88	28.02	7.3	5.56	-105.5	NM	
9:05	0.25	0.75	160	9.23	6.84	24.02	28.17	5.5	4.03	-95.4	NM	
9:10	0.25	1.00	160	9.33	6.84	24.08	28.22	4.5	3.57	-91.2	NM	
9:15	0.20	1.20	160	9.40	6.85	24.13	28.27	4.0	2.49	-88.7	NM	
9:20	0.20	1.40	160	9.44	6.87	24.19	28.34	3.4	2.67	-78.0	1.0175	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova		SAMPLER(S) SIGNATURE(S) / INITIALS: TC		SAMPLING INITIATED AT: 9:20		SAMPLING ENDED AT: 9:35			
PUMP OR TUBING DEPTH IN WELL: 51.6 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-512B-101315	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-512B-101315	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-512B-101315	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-512B-101315	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water was clear with yellow tint.
 Sampling Time: 9:20

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-513A	SAMPLE ID: MW-513A-101315	DATE: 10/13/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 34.5 - 39.5 feet btoC	STATIC DEPTH TO WATER 6.9 feet btoC	PURGE PUMP TYPE OR BAILER: PP							
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 37.0 feet) + 0.13 gallons = 0.23 gallons											
PUMP OR TUBING DEPTH IN WELL: INITIAL 37.0 feet btoC		FINAL 37.0 feet btoC		TOTAL VOLUME PURGED: ~6.00 gallons							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoC)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
08:55	0.25	0.25	150	6.92	5.75	22.46	3.874	87.5	57	-31.0	NM
09:00	0.25	0.50	150	6.91	5.75	22.41	3.850	64.0	58	-35.9	NM
09:05	0.25	0.75	150	6.89	5.76	22.38	3.671	56.1	59	-40.2	NM
09:10	0.25	1.00	150	6.90	5.76	22.40	3.581	46.9	60.0	-44.1	NM
09:15	0.25	1.25	150	6.90	5.76	22.37	3.379	38.4	58.8	-49.7	NM
09:20	0.25	1.50	150	6.91	5.75	22.40	3.396	34.2	59.3	-46.6	NM
09:25	0.25	1.75	150	6.90	5.75	22.45	3.404	30.4	58.9	-43.7	NM
09:30	0.25	2.00	150	6.91	5.75	22.48	3.407	25.6	59.0	-53.0	NM
09:35	0.25	2.25	150	6.90	5.75	22.51	3.629	24.3	60.3	-55.6	NM
09:40	0.25	2.50	150	6.90	5.76	22.52	3.658	22.9	60.4	-62.6	NM
09:45	0.25	2.75	150	6.90	5.76	22.53	3.467	19.9	61.7	-63.0	NM
09:50	0.25	3.00	150	6.90	5.76	22.55	3.359	19.6	60.5	-56.6	NM
09:55	0.25	3.25	150	6.90	5.72	22.68	3.109	18.0	60.3	-52.0	NM
10:00	0.25	3.50	150	6.90	5.74	22.72	3.269	17.0	62.5	-59.7	NM
10:05	0.25	3.75	150	6.90	5.75	22.79	3.390	15.8	63.6	-63.0	NM
10:10	0.25	4.00	150	6.90	5.76	22.94	3.414	14.8	63.0	-58.0	NM
10:15	0.25	4.25	150	6.90	5.76	23.1	3.45	14	64.1	-62.1	NM
10:20	0.25	4.50	150	6.90	5.76	23.21	3.471	13.5	63.8	-63.9	NM
10:25	0.25	4.75	150	6.91	5.77	23.4	3.503	12.4	64.5	-65.0	NM
10:30	0.25	5.00	150	6.91	5.77	23.46	3.527	11.9	64.0	-65.4	NM
10:35	0.25	5.25	150	6.91	5.77	23.54	3.563	11.1	64.7	-66.0	NM
10:40	0.25	5.50	150	6.91	5.77	23.52	3.570	10.5	64.2	-65.6	NM
10:45	0.25	5.75	0.5	6.90	5.76	23.48	3.563	10	64.2	-65.2	NM
10:50	0.25	6.00	0.5	6.87	5.77	23.53	3.564	9.7	66.3	-62.3	NM
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
BTOC = Below top of casing - feet below top of casing which includes above grade riser											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice			SAMPLER(S) SIGNATURE(S) / INITIALS: RR			SAMPLING INITIATED AT: 10:55		SAMPLING ENDED AT: 11:10	
PUMP OR TUBING DEPTH IN WELL: 37.0 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: Y		FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter	
FIELD DECONTAMINATION: PUMP: N			TUBING: N (dedicated)			DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-513A-101315	2	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	Field filtered sample for diss. Hg.
MW-513A-101315	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-513A-101315	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-513A-101315	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Turbidity goal of < 50 NTU not achieved, a field filtered sample was collected for dissolved mercury analysis. Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a dark coffee color.
Sampling Time: 10:55

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-513B	SAMPLE ID: MW-513B-101315	DATE: 10/13/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 43.8 - 48.8 feet btoc	STATIC DEPTH TO WATER 6.9 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 46.3 feet) + 0.13 gallons = 0.25 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT: 13:20			PURGING ENDED AT: 14:25			TOTAL VOLUME PURGED: 3.25 gallons	
INITIAL	FINAL										
46.3	46.3	feet btoc									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
13:25	0.25	0.25	150	7.89	9.43	24.27	19.73	16.0	19.3	-229.1	NM
13:30	0.25	0.50	150	8.01	9.24	24.46	18.14	12.8	17.6	-214.6	NM
13:35	0.25	0.75	150	8.58	9.30	24.66	16.00	9.3	17.6	-220.5	NM
13:40	0.25	1.00	150	8.94	9.89	25.13	18.91	8.4	17.3	-266.5	NM
13:45	0.25	1.25	150	9.08	10.41	25.59	21.65	6.9	18.8	-292.6	NM
13:50	0.25	1.50	150	9.13	10.82	25.59	24.48	6.7	17.3	-307.4	NM
13:55	0.25	1.75	150	9.15	11.00	25.55	26.25	6.3	16.5	-313.0	NM
14:00	0.25	2.00	150	9.14	11.40	25.51	29.72	5.9	15.9	-324.7	NM
14:05	0.25	2.25	150	9.13	11.47	25.42	30.92	6.1	15.1	-327.2	NM
14:10	0.25	2.50	150	9.17	11.56	25.33	31.70	5.8	14.3	-327.7	NM
14:15	0.25	2.75	150	9.16	11.59	25.24	32.08	5.6	14.4	-327.3	NM
14:20	0.25	3.00	150	9.15	11.61	25.32	32.26	5.3	14.3	-327.4	NM
14:25	0.25	3.25	150	9.14	11.62	25.31	32.40	5.3	14.3	-327.1	1.0175

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 14:30	SAMPLING ENDED AT: 14:45
PUMP OR TUBING DEPTH IN WELL: 46.3 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-513B-101315	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-513B-101315	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-513B-101315	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-513B-101315	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a dark tea color.
 Sampling Time: 14:30

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-514A	SAMPLE ID: MW-514A-101515	DATE: 10/15/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 34.8 - 39.8 feet btoc	STATIC DEPTH TO WATER 8.12 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 37.3 feet) + 0.13 gallons = 0.23 gallons				

PUMP OR TUBING DEPTH IN WELL:		INITIAL 37.3 feet btoc		FINAL 37.3 feet btoc		PURGING INITIATED AT: 8:55		PURGING ENDED AT: 9:27		TOTAL VOLUME PURGED: 1.5 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:00	0.25	0.25	200	8.38	6.29	22.77	7.976	129.5	6.14	-61.4	NM
9:05	0.25	0.50	200	8.31	6.46	22.64	8.284	7.5	5.91	-83.8	NM
9:10	0.25	0.75	200	8.28	6.49	22.71	8.329	6.0	4.49	-86.6	NM
9:15	0.25	1.00	200	8.28	6.50	22.80	8.346	4.3	5.15	-89.5	NM
9:20	0.25	1.25	200	8.26	6.50	23.04	8.389	3.8	5.55	-91.1	NM
9:25	0.25	1.50	200	8.25	6.50	23.20	8.415	3.4	6.30	-91.9	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 9:30	SAMPLING ENDED AT: 9:45
PUMP OR TUBING DEPTH IN WELL: 37.3 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N FILTER SIZE: 0.45 µm	FILTRATION EQUIPMENT TYPE: In-line filter
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-514A-101515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
MW-514A-101515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-514A-101515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-514A-101515	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water was clear with bubbles.
 Sampling Time: 9:30

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
 SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 10\%$ saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or $\pm 10\%$

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-514B	SAMPLE ID: MW-514B-101515	DATE: 10/15/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 44 - 49 feet bloc	STATIC DEPTH TO WATER: 8.78 feet bloc	PURGE PUMP TYPE: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 46.5 feet) + 0.13 gallons = 0.25 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	9:55		12:00		5.1 gallons					
46.5 feet bloc	46.5 feet bloc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet bloc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:00	0.25	0.25	200	9.13	6.35	24.11	5.926	6.4	40.3	-64.3	NM
10:05	0.25	0.50	170	9.21	6.28	24.18	5.842	NM	47.1	-68.6	NM
10:10	0.20	0.70	150	9.13	6.34	24.38	5.899	NM	62.9	-79.1	NM
10:15	0.20	0.90	150	9.02	6.41	24.63	5.986	NM	72.4	-70.1	NM
10:20	0.20	1.10	150	8.94	6.50	24.73	6.053	0.8	80.5	-57.7	NM
10:25	0.20	1.30	150	8.90	6.55	24.75	6.148	0.7	82.6	-87.9	NM
10:30	0.20	1.50	150	8.90	6.62	25.03	6.224	0.6	72.7	-74.1	NM
10:35	0.20	1.70	150	8.90	6.66	25.26	6.147	0.5	72.4	-103.9	NM
10:40	0.20	1.90	150	8.90	6.76	26.20	6.195	0.6	77.5	-160.8	NM
10:45	0.20	2.10	150	8.90	6.79	25.30	6.435	0.5	76.6	-163.8	NM
10:50	0.20	2.30	150	8.91	6.76	25.37	6.916	0.5	85.1	-171.7	NM
10:55	0.20	2.50	150	8.90	6.89	25.54	6.791	0.5	78.3	-130	NM
11:00	0.20	2.70	150	8.91	6.93	25.66	6.761	0.5	76.4	-161.2	NM
11:05	0.20	2.90	150	8.91	6.92	25.73	6.763	0.6	74.7	-176.1	NM
11:10	0.20	3.10	150	8.91	6.9	25.74	6.744	0.6	74.4	-188.3	NM
11:15	0.20	3.30	150	8.90	6.89	25.76	6.729	0.6	71.1	-166.7	NM
11:20	0.20	3.50	150	8.90	6.88	25.83	6.721	0.5	70.1	-182.2	NM
11:25	0.20	3.70	150	8.90	6.90	25.92	6.753	0.5	70.7	-193.2	NM
11:30	0.20	3.90	150	8.89	6.97	25.96	6.811	0.5	71.5	-195.3	NM
11:35	0.20	4.10	150	8.90	7.02	25.98	6.848	0.5	69.0	-182.3	NM
11:40	0.20	4.30	150	8.90	7.16	28.25	7.209	1.1	76.1	-187.9	NM
11:45	0.20	4.50	150	8.90	7.11	26.16	6.570	0.6	52.4	-197.6	NM
11:50	0.20	4.70	150	8.91	6.78	26.19	6.361	0.7	51.3	-198.4	NM
11:55	0.20	4.90	150	8.90	7.00	25.99	6.597	0.6	59.6	-221.3	NM
12:00	0.20	5.10	150	8.90	7.00	26.14	6.688	0.4	64.5	-226.0	1.0015

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova	SAMPLER(S) SIGNATURE(S) / INITIALS: TC	SAMPLING INITIATED AT: 12:00	SAMPLING ENDED AT: 12:15
PUMP OR TUBING DEPTH IN WELL: 46.5 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: Y	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-514B-101515	2	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	Field filtered sample for diss. Hg
MW-514B-101515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-514B-101515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-514B-101515	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a brown color.
 Sampling Time: 12:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable; NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-515B	SAMPLE ID: MW-515B-100815	DATE: 10/8/2015	

PURGING DATA				
WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 49.2 - 54.2 feet btoc	STATIC DEPTH TO WATER 7.77 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 51.7 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL 51.7 feet btoc		FINAL 51.7 feet btoc		PURGING INITIATED AT: 14:20			PURGING ENDED AT: 15:15			TOTAL VOLUME PURGED: 2.75 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
14:25	0.25	0.25	150	7.93	7.98	24.37	16.61	582.0	2.72	-175.2	NM
14:30	0.25	0.50	150	7.95	7.96	24.66	16.58	178.0	1.96	-189.8	NM
14:35	0.25	0.75	150	7.93	7.95	24.87	16.62	100.1	1.54	-191.0	NM
14:40	0.25	1.00	150	7.93	8.00	24.97	16.67	66.0	1.51	-182.9	NM
14:45	0.25	1.25	150	7.93	8.14	25.10	16.70	33.5	1.98	-202.0	NM
14:50	0.25	1.50	150	7.93	8.28	24.80	16.73	25.2	1.66	-203.3	NM
14:55	0.25	1.75	150	7.93	8.38	25.02	16.78	20.8	1.77	-198.6	NM
15:00	0.25	2.00	150	7.93	8.44	24.72	16.80	19.1	1.77	-210.9	NM
15:05	0.25	2.25	150	7.93	8.50	24.60	16.83	16.0	1.92	-211.1	NM
15:10	0.25	2.50	150	7.93	8.53	24.53	16.84	12.0	1.78	-208.0	NM
15:15	0.25	2.75	150	7.93	8.56	24.18	16.78	9.87	1.85	-213.1	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA					
SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice		SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 15:15	SAMPLING ENDED AT: 15:30
PUMP OR TUBING DEPTH IN WELL: 51.7 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-515B-100815	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-515B-100815	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-515B-100815	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-515B-100815	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Sampling Time: 15:15

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site				SITE LOCATION: Brunswick, GA							
WELL NO: MW-516B		SAMPLE ID: MW-516B-101515				DATE: 10/15/2015					
PURGING DATA											
WELL DIAMETER: 2 inches		TUBING DIAMETER: 1/4 inch		WELL SCREEN INTERVAL DEPTH: 50.6 - 55.6 feet btoc				STATIC DEPTH TO WATER: 7.24 feet btoc		PURGE PUMP TYPE OR BAILER: PP	
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 53.1 feet) + 0.13 gallons = 0.27 gallons											
PUMP OR TUBING DEPTH IN WELL: INITIAL 53.1 feet btoc				FINAL 53.1 feet btoc		PURGING INITIATED AT: 10:55		PURGING ENDED AT: 11:30		TOTAL VOLUME PURGED: 1.75 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:00	0.25	0.25	150	7.43	11.72	24.27	37.63	9.9	4.32	-321.3	NM
11:05	0.25	0.50	150	7.42	11.69	24.14	37.24	8.1	4.54	-324.8	NM
11:10	0.25	0.75	150	7.41	11.70	24.27	37.01	7.1	4.23	-330.0	NM
11:15	0.25	1.00	150	7.42	11.70	24.35	37.42	7.1	3.74	-330.4	NM
11:20	0.25	1.25	150	7.43	11.70	24.23	37.25	6.5	3.95	-329.0	NM
11:25	0.25	1.50	150	7.43	11.70	24.13	37.16	6.1	4.29	-328.8	NM
11:30	0.25	1.75	150	7.43	11.71	24.10	37.29	5.9	3.76	-332.3	1.0155
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 BTOC = Below top of casing – feet below top of casing which includes above grade riser											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											
SAMPLING DATA											
SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice				SAMPLER(S) SIGNATURE(S) / INITIALS: RR				SAMPLING INITIATED AT: 11:30		SAMPLING ENDED AT: 11:45	
PUMP OR TUBING DEPTH IN WELL: 53.1 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 μm				FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION: N				PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION						SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments		
MW-516B-101515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/		
MW-516B-101515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/		
MW-516B-101515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/		
MW-516B-101515	1	PE	500mL	--	--	--	2540C TDS	APP	/		
REMARKS: Per SOP, parameters and water levels were stable prior to sample collection. Purge water had a dark tea color. Sampling Time: 11:30											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											
NOTES: N/A : not applicable NM : not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH : ± 0.1 unit Specific Conductance : ± 5% Dissolved Oxygen : all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity : all readings ≤ 10 NTU; or ± 10%											

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-517A	SAMPLE ID: MW-517A-101415	DATE: 10/14/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 34.4 - 39.4 feet btoc	STATIC DEPTH TO WATER: 6.73 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 36.9 feet) + 0.13 gallons = 0.23 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT: 10:00			PURGING ENDED AT: 11:11			TOTAL VOLUME PURGED: 3.4 gallons	
INITIAL	FINAL										
36.9	36.9										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:05	0.25	0.25	200	7.07	7.25	24.01	7.655	7.33	14.3	-145.6	NM
10:10	0.25	0.50	180	7.10	8.87	24.49	8.095	4.2	14.0	-231.4	NM
10:15	0.25	0.75	180	7.12	8.82	24.73	8.145	2.4	20.5	-263.7	NM
10:20	0.25	1.00	180	7.08	8.90	24.79	8.183	1.9	20.5	-278.3	NM
10:25	0.25	1.25	180	7.08	8.96	24.75	8.197	1.6	22.4	-263.1	NM
10:30	0.25	1.50	180	7.08	8.94	24.83	8.209	1.6	21.2	-287.4	NM
10:35	0.25	1.75	180	7.08	8.89	24.81	8.204	1.3	19.6	-280.9	NM
10:40	0.25	2.00	180	7.08	8.84	24.94	8.220	1.1	17.4	-287.8	NM
10:45	0.25	2.25	180	7.08	8.76	24.93	8.213	1.1	18.1	-278.9	NM
10:50	0.25	2.50	180	7.06	8.71	24.96	8.214	1.0	17.2	-295.4	NM
10:55	0.25	2.75	170	7.06	8.67	25.10	8.228	0.9	17.1	-286.2	NM
11:00	0.25	3.00	170	7.02	8.59	25.21	8.248	0.8	15.8	-278.2	NM
11:05	0.20	3.20	170	7.01	8.57	25.30	8.255	0.7	15.4	-292.9	NM
11:10	0.20	3.40	170	7.00	8.53	25.42	8.265	0.7	16.4	-312.3	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova		SAMPLER(S) SIGNATURE(S) / INITIALS: TC		SAMPLING INITIATED AT: 11:15		SAMPLING ENDED AT: 11:30			
PUMP OR TUBING DEPTH IN WELL: 36.9 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-517A-101415	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-517A-101415	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-517A-101415	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-517A-101415	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a brown color.
 Sampling Time: 11:15

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)
NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-518B	SAMPLE ID: MW-518B-101515	DATE: 10/15/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 48.1 - 53.1 feet btoc	STATIC DEPTH TO WATER: 7.46 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 50.6 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	09:25		10:00		1.75 gallons					
50.6	50.6										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:30	0.25	0.25	150	7.56	6.23	21.22	12.35	43.3	15.4	-28.5	NM
9:35	0.25	0.50	150	7.56	6.30	21.25	12.57	29.7	10.7	-39.5	NM
9:40	0.25	0.75	150	7.56	6.31	21.41	12.65	30.9	7.68	-92.4	NM
9:45	0.25	1.00	150	7.56	6.33	21.52	12.70	30.1	5.81	-90.9	NM
9:50	0.25	1.25	150	7.56	6.34	21.72	12.75	25.9	4.82	-97.6	NM
9:55	0.25	1.50	150	7.56	6.35	21.80	12.74	24.9	4.29	-99.8	NM
10:00	0.25	1.75	150	7.56	6.36	21.97	12.75	23.8	3.90	-99.0	1.0070

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice		SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 10:00	SAMPLING ENDED AT: 10:15
PUMP OR TUBING DEPTH IN WELL: 50.6 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 μm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-518B-101515	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-518B-101515	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-518B-101515	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-518B-101515	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters and water level were stable prior to sample collection. Purge water had a weak tea color. Sampling Time: 10:00

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-519B	SAMPLE ID: MW-519B-100815	DATE: 10/8/2015	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 48.1 - 53.1 feet btoc	STATIC DEPTH TO WATER 8.3 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 50.6 feet) + 0.13 gallons = 0.26 gallons				

TIME	PUMP OR TUBING DEPTH IN WELL:		PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
	INITIAL 50.6 feet btoc	FINAL 50.6 feet btoc									
14:25	0.25	0.25	180	9.20	6.54	24.89	47.76	121.2	4.76	-139.5	NM
14:30	0.26	0.50	180	9.82	6.52	25.27	48.36	5.6	2.69	-144.1	NM
14:35	0.20	0.70	160	9.82	6.53	25.64	48.71	4.3	2.69	-139.2	NM
14:40	0.20	0.90	160	9.72	6.55	26.47	49.39	3.6	1.67	-125.2	NM
14:45	0.20	1.10	160	9.68	6.56	27.11	49.79	3.4	1.75	-116.5	NM
14:50	0.20	1.30	160	9.48	6.57	27.32	50.07	3.0	2.05	-119.9	1.0235

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tanya Chuprikova		SAMPLER(S) SIGNATURE(S) / INITIALS: TC			SAMPLING INITIATED AT: 14:55		SAMPLING ENDED AT: 15:10		
PUMP OR TUBING DEPTH IN WELL: 50.6 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 μ m			FILTRATION EQUIPMENT TYPE: In-line filter		
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-519B-100815	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-519B-100815	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-519B-100815	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-519B-100815	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water level were stable prior to sample collection.
Sampling Time: 14:55

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: \pm 0.1 unit
Specific Conductance: \pm 5% **Dissolved Oxygen:** all readings \leq 10% saturation; optionally, \pm 0.2 mg/L **Turbidity:** all readings \leq 10 NTU; or \pm 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-1	SAMPLE ID: EW-1-100615	DATE: 10/6/2015	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 44 - 49 feet btoe	STATIC DEPTH TO WATER N/A feet btoe	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 46.5 feet) + 0.13 gallons = 0.25 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:				PURGING ENDED AT:				TOTAL VOLUME PURGED:
INITIAL 46.5 feet btoe		FINAL 46.5 feet btoe		09:20				09:55				1.75 gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoe)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)	
09:25	0.25	0.25	150	N/A	9.94	21.25	5.87	13.5	16.0	-71.3	NM	
09:30	0.25	0.50	150	N/A	9.97	21.87	6.08	11.7	14.1	-108.1	NM	
09:35	0.25	0.75	150	N/A	6.50	21.81	12.02	10.1	9.88	-97.1	NM	
09:40	0.25	1.00	150	N/A	6.33	21.58	13.85	13.9	5.52	-81.8	NM	
09:45	0.25	1.25	150	N/A	6.33	21.55	13.81	13.7	5.30	-82.2	NM	
09:50	0.25	1.50	150	N/A	6.31	21.53	13.79	14.3	4.53	-80.3	NM	
09:55	0.25	1.75	150	N/A	6.29	21.65	13.81	14.5	4.23	-79.9	NM	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 09:55	SAMPLING ENDED AT: 10:10
PUMP OR TUBING DEPTH IN WELL: 46.5 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N FILTER SIZE: 0.45 μm	FILTRATION EQUIPMENT TYPE: In-line filter
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-1-100615	1	PE	250mL	HNO₃	--	--	6010B Metals 7470A Hg	APP	/
EW-1-100615	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-1-100615	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-1-100615	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters were stable prior to sample collection.
Water level could not be recorded in extraction wells.
Purge water a light tea color.
Sampling Time: 9:55

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable; NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L; Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO:	EW-2	SAMPLE ID:	EW-2-100615
		DATE:	10/6/2015

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 32 - 56 feet btoc	STATIC DEPTH TO WATER N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 44 feet) + 0.13 gallons = 0.24 gallons				

TIME	PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED: 1.75 gallons	
	INITIAL 44.0 feet btoc	FINAL 44.0 feet btoc		10:30			11:05				
	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:35	0.25	0.25	150	N/A	7.93	22.66	9.905	8.3	20.2	-90.2	NM
10:40	0.25	0.50	150	N/A	6.84	22.55	10.69	6.4	15.4	-100.8	NM
10:45	0.25	0.75	150	N/A	6.61	22.52	10.91	7.4	13.7	-92.9	NM
10:50	0.25	1.00	150	N/A	6.47	22.56	11.09	9.8	6.32	-98.0	NM
10:55	0.25	1.25	150	N/A	6.40	22.32	11.14	13.0	5.24	-96.9	NM
11:00	0.25	1.50	150	N/A	6.36	22.17	11.15	14.0	4.53	-91.6	NM
11:05	0.25	1.75	150	N/A	6.35	22.12	11.17	13.5	3.93	-89.4	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:27
PUMP OR TUBING DEPTH IN WELL: 44.0 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
EW-2-100615	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-2-100615	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-2-100615	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-2-100615	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Sampling Time: 11:05

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-3	SAMPLE ID: EW-3-100615	DATE: 10/6/2015	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 37.2 - 42.2 feet btoC	STATIC DEPTH TO WATER: N/A feet btoC	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 39.7 feet) + 0.13 gallons = 0.23 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:
INITIAL 39.7 feet btoC	FINAL 39.7 feet btoC	12:55	13:35			2 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoC)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
13:00	0.25	0.25	150	N/A	6.77	23.40	24.32	246.0	3.76	-116.8	NM
13:05	0.25	0.5	150	N/A	6.76	23.01	23.97	53.3	3.22	-144.9	NM
13:10	0.25	0.75	150	N/A	6.74	22.78	22.71	29.7	2.68	-130.6	NM
13:15	0.25	1.00	150	N/A	6.69	22.94	21.58	21.2	2.90	-137.1	NM
13:20	0.25	1.25	150	N/A	6.66	23.25	21.18	17.0	2.68	-140.1	NM
13:25	0.25	1.5	150	N/A	6.66	23.51	20.95	14.4	2.41	-138.7	NM
13:30	0.25	1.75	150	N/A	6.65	23.70	20.88	11.4	2.35	-138.8	NM
13:35	0.25	2.00	150	N/A	6.65	23.68	20.87	9.6	2.29	-132.8	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 13:35	SAMPLING ENDED AT: 13:50
PUMP OR TUBING DEPTH IN WELL: 39.7 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
					TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
EW-3-100615	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
EW-3-100615	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
EW-3-100615	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
EW-3-100615	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Purge water had tea color.
 Sampling Time: 13:35

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-4	SAMPLE ID: EW-4-100715	DATE: 10/7/2015	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 38.2 - 43.2 feet btoc	STATIC DEPTH TO WATER: N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 40.7 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL 40.7 feet btoc		FINAL 40.7 feet btoc		PURGING INITIATED AT: 0853			PURGING ENDED AT: 0955			TOTAL VOLUME PURGED: 3 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:00	0.25	0.25	150	N/A	9.73	21.71	5.539	14.4	47.7	-181.4	NM
9:05	0.25	0.50	150	N/A	7.49	21.56	6.840	13.3	21.5	-171.8	NM
9:10	0.25	0.75	150	N/A	6.96	21.46	7.954	15.1	17.9	-129.1	NM
9:15	0.25	1.00	150	N/A	6.95	21.51	8.206	13.7	19.0	-121.6	NM
9:20	0.25	1.25	150	N/A	6.90	21.49	8.255	12.8	18.9	-111.1	NM
9:25	0.25	1.50	150	N/A	6.87	21.43	8.282	12.5	18.3	-105.2	NM
9:30	0.25	1.75	150	N/A	6.86	21.45	8.251	12.4	19.0	-91.6	NM
9:35	0.25	2.00	150	N/A	6.86	21.44	8.262	12.1	18.3	-84.2	NM
9:40	0.25	2.25	150	N/A	6.85	21.47	8.273	11.6	18.6	-78.6	NM
9:45	0.25	2.50	150	N/A	6.83	21.53	8.290	11.5	18.9	-87.3	NM
9:50	0.25	2.75	150	N/A	6.81	21.53	8.280	11.2	18.9	-101.9	NM
9:55	0.25	3.00	150	N/A	6.81	21.54	8.273	11.0	18.7	-85.7	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice			SAMPLER(S) SIGNATURE(S) / INITIALS: RR			SAMPLING INITIATED AT: 10:00		SAMPLING ENDED AT: 10:15	
PUMP OR TUBING DEPTH IN WELL: 40.7 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N		FILTER SIZE: 0.45 μm			
FIELD DECONTAMINATION: N		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-4-100715	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-4-100715	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-4-100715	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-4-100715	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Purge water had very weak (light) tea color.
 Sampling Time: 10:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site **SITE LOCATION:** Brunswick, GA

WELL NO: EW-5 **SAMPLE ID:** EW-5-100615 **DATE:** 10/6/2015

PURGING DATA

WELL DIAMETER: 1 inches **TUBING DIAMETER:** 1/4 inch **WELL SCREEN INTERVAL DEPTH:** 46.1 - 51.1 feet btoc **STATIC DEPTH TO WATER:** N/A feet btoc **PURGE PUMP TYPE OR BAILER:** PP

Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= (0.0026 gallons/foot x 48.6 feet) + 0.13 gallons = 0.26 gallons

PUMP OR TUBING DEPTH IN WELL:
INITIAL: 48.6 feet btoc FINAL: 48.6 feet btoc **PURGING INITIATED AT:** 14:40 **PURGING ENDED AT:** 15:15 **TOTAL VOLUME PURGED:** 1.75 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
14:45	0.25	0.25	150	N/A	10.25	22.62	23.24	135.1	22.2	-318.0	NM
14:50	0.25	0.50	150	N/A	10.41	22.59	23.19	32.0	38.8	-327.5	NM
14:55	0.25	0.75	150	N/A	10.54	22.46	24.63	14.7	49.0	-329.6	NM
15:00	0.25	1.00	150	N/A	10.69	22.22	34.95	9.1	16.3	-351.9	NM
15:05	0.25	1.25	150	N/A	10.82	22.58	50.48	5.6	7.40	-372.1	NM
15:10	0.25	1.50	150	N/A	10.78	22.53	50.16	5.5	6.58	-370.8	NM
15:15	0.25	1.75	150	N/A	10.73	22.48	49.67	4.7	5.92	-363.5	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing - feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice **SAMPLER(S) SIGNATURE(S) / INITIALS:** RR **SAMPLING INITIATED AT:** 15:25 **SAMPLING ENDED AT:** 15:40

PUMP OR TUBING DEPTH IN WELL: 48.6 feet **TUBING MATERIAL CODE:** Teflon-lined PE **FIELD-FILTERED:** N **FILTER SIZE:** 0.45 µm
FILTRATION EQUIPMENT TYPE: In-line filter

FIELD DECONTAMINATION: PUMP: N **TUBING:** N (dedicated) **DUPLICATE ID and time:** N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-5-100615	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-5-100615	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-5-100615	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-5-100615	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Purge water had a coffee color.
 Sampling Time: 15:25

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. **Stabilization Criteria for Range of Variation of Last Three Consecutive Readings:** pH: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen:** all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity:** all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site			SITE LOCATION: Brunswick, GA		
WELL NO:	EW-6	SAMPLE ID:	EW-6-100715	DATE:	10/7/2015

PURGING DATA					
WELL DIAMETER: 1 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 46.2 - 51.2 feet btoc		STATIC DEPTH TO WATER N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-In-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME					
= (0.0026 gallons/foot x 48.7 feet) + 0.13 gallons = 0.26 gallons					

PUMP OR TUBING DEPTH IN WELL: INITIAL 48.7 feet btoc			FINAL 48.7 feet btoc			PURGING INITIATED AT: 10:40		PURGING ENDED AT: 11:20		TOTAL VOLUME PURGED: 2 gallons	
--	--	--	-----------------------------	--	--	------------------------------------	--	--------------------------------	--	---------------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:45	0.25	0.25	150	N/A	11.68	23.74	46.53	9.4	43.5	-275.8	NM
10:50	0.25	0.50	150	N/A	11.68	23.69	46.00	7.9	20.1	-287.4	NM
10:55	0.25	0.75	150	N/A	11.52	23.97	44.98	6.7	11.7	-301.5	NM
11:00	0.25	1.00	150	N/A	9.46	24.43	48.97	6.0	11.1	-274.0	NM
11:05	0.25	1.25	150	N/A	8.89	23.59	50.84	6.0	4.83	-236.0	NM
11:10	0.25	1.50	150	N/A	8.77	23.87	48.08	5.8	8.77	-237.1	NM
11:15	0.25	1.75	150	N/A	8.74	23.80	47.77	5.5	10.30	-236.8	NM
11:20	0.25	2.00	150	N/A	8.68	23.54	46.00	5.3	9.98	-232.7	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA				
SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 11:25	SAMPLING ENDED AT: 11:40
PUMP OR TUBING DEPTH IN WELL: 48.7 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm	
FIELD DECONTAMINATION: PUMP: N		TUBING: N (dedicated) DUPLICATE ID and time: N		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
EW-6-100715	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-6-100715	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-6-100715	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-6-100715	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters were stable prior to sample collection.
Water level could not be recorded in extraction wells.
Purge water had a tea color.
Sampling Time: 11:25

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-8	SAMPLE ID: EW-8-100715	DATE: 10/7/2015	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 46.6 - 51.6 feet btoc	STATIC DEPTH TO WATER: N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 49.1 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT: 13:25				PURGING ENDED AT: 14:00				TOTAL VOLUME PURGED: 1.75 gallons	
INITIAL	FINAL											
49.1	49.1											
feet btoc	feet btoc											
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)	
13:30	0.25	0.25	150	N/A	9.98	24.44	12.01	6.8	10.3	-220.6	NM	
13:35	0.25	0.50	150	N/A	9.86	24.52	11.15	5.2	8.52	-213.0	NM	
13:40	0.25	0.75	150	N/A	7.05	24.51	11.50	4.9	7.79	-153.3	NM	
13:45	0.25	1.00	150	N/A	6.66	24.51	12.18	8.0	5.22	-136.0	NM	
13:50	0.25	1.25	150	N/A	6.54	24.39	12.72	9.5	3.70	-125.5	NM	
13:55	0.25	1.50	150	N/A	6.51	24.35	12.96	10.4	2.83	-121.5	NM	
14:00	0.25	1.75	150	N/A	6.49	24.49	13.20	10.5	2.56	-122.9	NM	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice		SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 14:05	SAMPLING ENDED AT: 14:20
PUMP OR TUBING DEPTH IN WELL: 49.1 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N	FILTER SIZE: 0.45 μm
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: EW-8-DUP-100715 14:20	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-8-100715	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-8-100715	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-8-100715	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-8-100715	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Purged water had a light tea color.
 Sampling Time: 14:05

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site	SITE LOCATION: Brunswick, GA
WELL NO: EW-9	SAMPLE ID: EW-9-100715
DATE: 10/7/2015	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 47 - 52 feet btoc	STATIC DEPTH TO WATER: N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 49.5 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL	FINAL										
49.5 feet btoc	49.5 feet btoc				15:10			15:45		1.75 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
15:15	0.25	0.25	150	N/A	9.60	24.23	18.40	5.5	31.2	-269.9	NM
15:20	0.25	0.50	150	N/A	9.07	24.31	17.21	4.3	16.1	-258.3	NM
15:25	0.25	0.75	150	N/A	6.95	24.36	15.26	4.4	11.3	-200.5	NM
15:30	0.25	1.00	150	N/A	6.74	24.35	14.37	4.8	8.98	-186.5	NM
15:35	0.25	1.25	150	N/A	6.60	24.38	13.83	5.9	8.23	-169.5	NM
15:40	0.25	1.50	150	N/A	6.56	24.45	13.61	6.5	8.29	-155.6	NM
15:45	0.25	1.75	150	N/A	6.55	24.57	13.59	6.3	9.00	-154.9	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing - feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR	SAMPLING INITIATED AT: 16:00	SAMPLING ENDED AT: 16:15
PUMP OR TUBING DEPTH IN WELL: 49.5 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm
FIELD DECONTAMINATION: N		FILTRATION EQUIPMENT TYPE: In-line filter	
PUMP: N		TUBING: N (dedicated) DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-9-100715	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-9-100715	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-9-100715	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-9-100715	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Purged water had a tea color.
 Sampling Time: 16:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-10	SAMPLE ID: EW-10-100815	DATE: 10/8/2015	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 45.3 - 50.3 feet btoc	STATIC DEPTH TO WATER: N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 47.8 feet) + 0.13 gallons = 0.25 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL 47.8 feet btoc		FINAL 47.8 feet btoc		PURGING INITIATED AT: 09:05			PURGING ENDED AT: 10:10			TOTAL VOLUME PURGED: 3.25 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:10	0.25	0.25	150	N/A	10.04	22.22	11.91	11.1	65.8	-245.3	NM
9:15	0.25	0.50	150	N/A	9.74	22.40	5.083	6.5	29.8	-211.6	NM
9:20	0.25	0.75	150	N/A	9.44	22.53	2.938	5.6	21.7	-190.6	NM
9:25	0.25	1.00	150	N/A	9.25	22.63	2.084	5.6	16.5	-175.1	NM
9:30	0.25	1.25	150	N/A	9.12	22.63	1.816	5.4	13.7	-161.2	NM
9:35	0.25	1.50	150	N/A	8.91	22.70	1.550	5.2	15.3	-140.3	NM
9:40	0.25	1.75	150	N/A	8.84	22.77	1.454	5.1	14.4	-134.8	NM
9:45	0.25	2.00	150	N/A	8.79	22.88	1.458	4.8	18.7	-129.0	NM
9:50	0.25	2.25	150	N/A	8.78	23.01	1.464	4.5	17.4	-122.3	NM
9:55	0.25	2.50	150	N/A	8.79	23.05	1.513	4.3	14.7	-129.2	NM
10:00	0.25	2.75	150	N/A	8.87	23.25	1.615	4.4	19.4	-127.0	NM
10:05	0.25	3.00	150	N/A	8.88	23.32	1.605	3.7	20.3	-130.7	NM
10:10	0.25	3.25	150	N/A	8.92	23.47	1.634	3.5	21.4	-139.0	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice		SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 10:15	SAMPLING ENDED AT: 10:30
PUMP OR TUBING DEPTH IN WELL: 47.8 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-10-100815	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-10-100815	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-10-100815	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-10-100815	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Purged water had a light tea color.
 Sampling Time: 10:15

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-11	SAMPLE ID: EW-11-100815	DATE: 10/8/2015	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 44 - 49 feet btoc	STATIC DEPTH TO WATER N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 46.5 feet) + 0.13 gallons = 0.25 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL 46.5 feet btoc		FINAL 46.5 feet btoc		PURGING INITIATED AT: 10:58			PURGING ENDED AT: 11:35			TOTAL VOLUME PURGED: 2 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:05	0.25	0.25	150	N/A	6.49	23.53	20.35	9.9	14.40	-147.7	NM
11:10	0.25	0.50	150	N/A	6.41	23.54	20.38	7.4	9.95	-150.3	NM
11:15	0.25	0.75	150	N/A	6.41	24.00	21.40	6.2	8.07	-153.4	NM
11:20	0.25	1.00	150	N/A	6.42	24.22	21.85	6.3	7.26	-149.3	NM
11:25	0.25	1.25	150	N/A	6.42	24.48	22.10	6.9	6.47	-149.5	NM
11:30	0.25	1.50	150	N/A	6.41	24.46	22.16	7.1	6.21	-149.2	NM
11:35	0.25	1.75	150	N/A	6.41	24.69	22.32	6.7	5.96	-147.8	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Radmon Rice	SAMPLER(S) SIGNATURE(S) / INITIALS: RR		SAMPLING INITIATED AT: 11:40	SAMPLING ENDED AT: 11:55
PUMP OR TUBING DEPTH IN WELL: 46.5 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm	
FIELD DECONTAMINATION: N		TUBING: N (dedicated)		DUPLICATE ID and time: N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
EW-11-100815	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
EW-11-100815	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
EW-11-100815	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
EW-11-100815	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Sampling Time: 11:40

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-1C	SAMPLE ID: MW-1C-032916	DATE: 3/29/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 47.7 feet btoc - 52.7 feet btoc	STATIC DEPTH TO WATER: 9.25 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 50.2 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT: 12:12			PURGING ENDED AT: 12:40			TOTAL VOLUME PURGED: 1.2 gallons	
INITIAL 50.2	FINAL 50.2										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
12:15	0.20	0.20	220	9.30	6.48	22.81	28.39	6.5	4.11	-90.0	NM
12:20	0.20	0.40	220	9.30	6.47	22.46	29.05	3.3	2.14	-110.0	NM
12:25	0.20	0.60	170	9.35	6.47	22.37	29.39	2.6	1.61	-118.8	NM
12:30	0.20	0.80	170	9.35	6.46	22.43	29.67	2.1	1.93	-121.9	NM
12:35	0.20	1.00	170	9.35	6.46	22.39	29.75	1.7	0.76	-116.3	NM
12:40	0.20	1.20	170	9.35	6.46	22.35	29.76	1.5	1.67	-123.9	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 BTOC = Below top of casing – feet below top of casing which includes above grade riser											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: JC	SAMPLING INITIATED AT: 12:40	SAMPLING ENDED AT: 12:55
PUMP OR TUBING DEPTH IN WELL: 50.2 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: N		TUBING: N (dedicated) DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION					INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-1C-032916	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
MW-1C-032916	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-1C-032916	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-1C-032916	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water level were stable prior to sample collection.
 Purge water had a light brown color and lots of effervescence.
 Sampling time: 12:40

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)	
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; 8	

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit **Specific Conductance**: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-2C	SAMPLE ID: MW-2C-032916	DATE: 3/29/2016	

PURGING DATA				
WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 48.8 - 53.8 feet btoc	STATIC DEPTH TO WATER: 8.92 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 51.3 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL	FINAL			9:34			10:30			2 gallons	
51.3	51.3										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:43	0.20	0.20	120	11.25	6.57	20.6	25.34	0.53	4.59	-72.0	NM
9:50	0.20	0.40	120	12.15	6.59	20.4	25.25	0.4	4.64	-62.7	NM
9:55	0.20	0.60	100	12.49	6.59	20.39	25.3	0.37	6.48	-65.0	NM
10:00	0.20	0.80	100	12.84	6.58	20.41	25.32	0.26	5.29	-72.4	NM
10:05	0.20	1.00	100	12.97	6.58	20.45	25.32	0.24	4.93	-77.2	NM
10:15	0.40	1.40	100	13.35	6.57	20.63	25.38	0.23	8.91	-70.0	NM
10:20	0.20	1.60	100	13.45	6.57	20.73	25.4	0.18	4.56	-71.5	NM
10:25	0.20	1.80	100	13.50	6.57	20.78	25.41	0.18	3.61	-71.3	NM
10:30	0.20	2.00	100	13.53	6.57	20.87	25.43	0.17	3.22	-73.7	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: JC		SAMPLING INITIATED AT: 10:30	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL: 51.3 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm	
FIELD DECONTAMINATION: N		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-2C-032916	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-2C-032916	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-2C-032916	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-2C-032916	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water level were stable prior to sample collection.
Purge water had light brown color. No effervescence.
Sampling time: 10:30

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-105C	SAMPLE ID: MW-105C-040416	DATE: 4/4/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 42.8 - 44.8 feet btoc	STATIC DEPTH TO WATER: 7.05 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 43.8 feet) + 0.13 gallons = 0.24 gallons				

TIME	PUMP OR TUBING DEPTH IN WELL:		PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
	INITIAL 43.8 feet btoc	FINAL 43.8 feet btoc									
16:25			300	7.40	6.36	22.49	8.071	12.6	2.58	-33.6	NM
16:30			300	7.40	6.36	22.44	8.433	4.2	0.94	-43.5	NM
16:38			300	7.40	6.36	22.41	8.450	2.0	0.35	-59.9	NM
16:43			300	7.40	6.37	22.40	8.453	1.7	0.57	-64.9	NM
16:48			300	7.40	6.38	22.43	8.437	1.4	0.55	-71.6	NM
16:53			300	7.40	6.38	22.39	8.468	1.3	0.49	-74.9	NM
16:58			300	7.40	6.38	22.39	8.436	1.2	0.48	-74.5	1.0065

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: JC	SAMPLING INITIATED AT: 17:00	SAMPLING ENDED AT: 17:15
PUMP OR TUBING DEPTH IN WELL: 43.8 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time: N	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-105C-040416	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-105C-040416	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-105C-040416	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a slight brown color and lots of effervescence.
 Sampling Time: 17:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-112C	SAMPLE ID: MW-112C-033016	DATE: 3/30/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 49.6 - 51.6 feet btoc	STATIC DEPTH TO WATER: 6.58 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 50.6 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	10:10		12:30		8					
50.6	50.6					gallons					
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:15	0.40	0.40	260	7.30	10.83	20.61	38.83	2.3	14.9	-479.9	NM
10:20	0.40	0.80	260	7.18	10.92	20.65	39.10	1.5	11.7	-502.8	NM
10:25	0.40	1.20	260	7.18	10.92	20.67	38.98	1.4	12.2	-505.8	NM
10:30	0.40	1.60	260	7.18	10.91	20.69	38.44	1.3	15.0	-510.1	NM
10:35	0.40	2.00	260	7.18	10.90	20.72	38.22	1.2	13.1	-511.1	NM
10:40	0.40	2.40	260	7.18	10.89	20.77	38.06	1.2	13.0	-512.9	NM
10:45	0.40	2.80	260	7.18	10.87	20.76	37.66	0.8	12.2	-513.7	NM
10:50	0.40	3.20	260	7.18	10.83	20.80	37.21	0.8	12.2	-514.8	NM
11:00	0.80	4.00	260	7.18	10.78	20.85	36.70	0.9	11.9	-511	NM
11:05	0.40	4.40	260	7.18	10.75	20.89	36.510	0.7	11.5	-508.7	NM
11:10	Pump stopped working. Change with new pump and restart purging at 11:40.										
11:45	0.00	4.40	200	7.02	10.68	21.46	37.34	32.2	12.3	-478.9	NM
11:50	0.40	4.80	200	7.05	10.65	21.53	37.30	15.4	11.9	-474.3	NM
11:55	0.40	5.20	200	7.05	10.64	21.35	36.88	4.5	12.6	-496.5	NM
12:00	0.40	5.60	200	7.05	10.64	21.35	36.79	3.7	11.4	-503.3	NM
12:05	0.40	6.00	200	7.05	10.63	21.34	36.6	2.6	11.7	-506.1	NM
12:10	0.40	6.40	200	7.05	10.62	21.32	36.47	2.2	11.7	-508.3	NM
12:15	0.40	6.80	200	7.05	10.62	21.44	36.37	1.8	11.4	-510.3	NM
12:20	0.40	7.20	220	7.05	10.60	21.37	36.25	1.2	11.8	-514	NM
12:25	0.40	7.60	220	7.05	10.59	21.34	36.05	1	11.6	-508.7	NM
12:30	0.40	8.00	220	7.05	10.58	21.42	35.95	0.8	11.5	-515.4	1.0205

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: JC	SAMPLING INITIATED AT: 12:30	SAMPLING ENDED AT: 13:00
PUMP OR TUBING DEPTH IN WELL: 50.6 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time: MW-112C-033016 12:40	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-112C-033016	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-112C-033016	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-112C-033016	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-112C-033016	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Sampling time: 12:30

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site				SITE LOCATION: Brunswick, GA			
WELL NO: MW-113C		SAMPLE ID: MW-113C-033016		DATE: 3/30/2016			

PURGING DATA											
WELL DIAMETER: 2 inches			TUBING DIAMETER: 1/4 inch			WELL SCREEN INTERVAL DEPTH: 48.8 - 50.3 feet btoc			STATIC DEPTH TO WATER: 7.25 feet btoc		PURGE PUMP TYPE OR BAILER: PP
Tubing-In-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 49.6 feet) + 0.13 gallons = 0.26 gallons											

PUMP OR TUBING DEPTH IN WELL:											
INITIAL 49.6 feet btoc		FINAL 49.6 feet btoc		PURGING INITIATED AT: 9:00			PURGING ENDED AT: 9:35			TOTAL VOLUME PURGED: 1.3 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:05	0.20	0.10	200	8.64	9.21	20.25	42.14	3.2	9.78	-169.9	NM
9:10	0.20	0.30	130	8.48	9.22	20.15	42.16	2.2	10.1	-163.7	NM
9:15	0.20	0.50	170	8.45	9.24	20.29	42.39	1.4	6.05	-215.7	NM
9:20	0.20	0.70	170	8.45	9.25	20.32	42.44	1.4	5.07	-227.4	NM
9:25	0.20	0.90	170	8.45	9.24	20.38	42.48	1.4	5.34	-196.1	NM
9:30	0.20	1.10	170	8.45	9.25	20.47	42.58	1.2	3.89	-215.6	NM
9:35	0.20	1.30	170	8.45	9.25	20.50	42.61	1.0	4.50	-223.1	1.0245

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing - feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA											
SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons				SAMPLER(S) SIGNATURE(S) / INITIALS: JC				SAMPLING INITIATED AT: 9:35		SAMPLING ENDED AT: 9:45	
PUMP OR TUBING DEPTH IN WELL: 49.6 feet			TUBING MATERIAL CODE: Teflon-lined PE			FIELD-FILTERED: N FILTER SIZE: 0.45 µm			FILTRATION EQUIPMENT TYPE: In-line filter		
FIELD DECONTAMINATION:				PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: No			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-113C-033016	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
MW-113C-033016	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-113C-033016	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-113C-033016	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection. Purge water had a dark brown color, no effervescence. Sampling time: 9:35

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-352A	SAMPLE ID: MW-352A-041816	DATE: 4/18/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 35.3 - 36.8 feet btoc	STATIC DEPTH TO WATER 10.09 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 36.05 feet) + 0.13 gallons = 0.22 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL 36.1 feet btoc		FINAL 36.1 feet btoc		PURGING INITIATED AT: 9:49			PURGING ENDED AT: 10:19			TOTAL VOLUME PURGED: 1.5 gallons
--	--	-----------------------------	--	-----------------------------------	--	--	--------------------------------	--	--	---

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:54	0.25	0.25	200	10.09	6.65	22.07	9.347	69.9	11.3	-69.1	NM
9:59	0.25	0.50	200	10.09	6.63	22.25	9.300	2.6	7.93	-78.3	NM
10:04	0.25	0.75	200	10.09	6.63	22.24	9.185	1.9	5.59	-80.9	NM
10:09	0.25	1.00	200	10.09	6.62	22.33	9.035	1.5	3.96	-83.3	NM
10:14	0.25	1.25	200	10.09	6.61	22.52	8.969	1.3	2.76	-86.2	NM
10:19	0.25	1.50	200	10.10	6.60	22.56	8.990	1.2	2.32	-87.7	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: MJS		SAMPLING INITIATED AT: 10:20	SAMPLING ENDED AT: 10:34
PUMP OR TUBING DEPTH IN WELL: 36.1 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time:	N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-352A-041816	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-352A-041816	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-352A-041816	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-352A-041816	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a slight tinted tea color.
 Sampling time: 10:20

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump;
 RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-352B	SAMPLE ID: MW-352B-042016	DATE: 4/20/2016	

PURGING DATA					
WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 51.5 - 53.5 feet btoc		STATIC DEPTH TO WATER: NM feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 52.5 feet) + 0.13 gallons = 0.27 gallons					

PUMP OR TUBING DEPTH IN WELL:											
INITIAL 52.5 feet btoc		FINAL 52.5 feet btoc		PURGING INITIATED AT: 14:15			PURGING ENDED AT: 14:46			TOTAL VOLUME PURGED: 1.5 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
14:20	0.25	0.25	180	14.65	9.47	24.74	58.49	2.1	37.8	-337.6	NM
14:25	0.25	0.5	180	15.84	9.48	24.84	58.87	1.5	42.3	-375.2	NM
14:30	0.25	0.75	180	16.39	9.47	24.74	58.19	1.5	49.7	-405.3	NM
14:35	0.25	1	180	17.07	9.46	24.81	57.90	1.9	52.2	-424.3	NM
14:40	0.25	1.25	180	17.52	9.44	25.06	58.18	2.3	49.3	-425.8	NM
14:45	0.25	1.5	180	17.77	9.44	25.09	58.30	2.5	48.4	-427.3	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA					
SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: MJS		SAMPLING INITIATED AT: 14:47	SAMPLING ENDED AT: 15:10
PUMP OR TUBING DEPTH IN WELL: 52.5 feet		TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm	
FIELD DECONTAMINATION:		PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time:	N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-352B-042016	2	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-352B-042016	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-352B-042016	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-352B-042016	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Water levels could not stabilized, switch to contingent purge method. Three well volumes were purged (22.2 gallons), then field parameters were measured. Per SOP, field parameters were stable prior to sample collection at the exception of water levels.
 Sampling time: 14:47

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site			SITE LOCATION: Brunswick, GA		
WELL NO: MW-353B	SAMPLE ID: MW-353B-040416	DATE: 4/4/2016			

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 43 - 44.5 feet btoc	STATIC DEPTH TO WATER: 6.9 feet btoc	PURGE PUMP TYPE OR BAILER: PP
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Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 = (0.0026 gallons/foot x **43.75** feet) + 0.13 gallons = **0.24** gallons

PUMP OR TUBING DEPTH IN WELL: INITIAL 43.8 feet btoc		FINAL 43.8 feet btoc		PURGING INITIATED AT: 13:35			PURGING ENDED AT: 14:19			TOTAL VOLUME PURGED: 3.75 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
13:37	0.25	0.25	340	7.00	9.68	21.78	33.97	4.8	8.46	-438.6	NM
13:57	1.50	1.75	340	7.00	9.58	21.55	32.86	1.2	9.81	-392.3	NM
14:04	0.50	2.25	300	7.00	9.59	21.48	32.81	1.0	7.34	-435.4	NM
14:09	0.50	2.75	260	7.00	9.58	21.51	32.84	0.7	7.56	-408.3	NM
14:14	0.50	3.25	260	7.00	9.57	21.55	32.86	0.6	7.40	-403.5	NM
14:19	0.50	3.75	260	7.00	9.56	21.58	32.94	0.5	7.31	-410.8	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing - feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: JC	SAMPLING INITIATED AT: 14:20	SAMPLING ENDED AT: 14:35						
PUMP OR TUBING DEPTH IN WELL: 43.8 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm						
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time: MW-353B-DUP-040416	14:23						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-353B-040416	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-353B-040416	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-353B-040416	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-353B-040416	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water dark brown color, no effervescence.
 Sampling time: 14:20
 Duplicate sample collected.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site	SITE LOCATION: Brunswick, GA
WELL NO: MW-357A	SAMPLE ID: MW-357A-040116
DATE: 4/1/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 41.3 - 42.8 feet btoc	STATIC DEPTH TO WATER: 7.37 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 42 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:			
INITIAL	FINAL	12:59			13:32			1.75 gallons			
42	42										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
13:02	0.25	0.25	200	7.95	6.58	23.5	7.842	16.3	5.74	-83.6	NM
13:07	0.25	0.50	200	9.05	6.49	22.87	9.522	3.2	4.48	-128.4	NM
13:12	0.25	0.75	200	10.18	6.48	22.77	9.794	1.6	4.95	-156.4	NM
13:17	0.25	1.00	200	10.33	6.48	23.50	9.974	1.1	4.53	-156.3	NM
13:22	0.25	1.25	200	10.35	6.50	24.04	10.07	0.9	4.17	-154.5	NM
13:27	0.25	1.50	200	10.39	6.51	24.18	10.11	0.8	4.13	-156.3	NM
13:32	0.25	1.75	200	10.40	6.51	24.20	10.10	0.7	4.08	-157.3	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: MJS	SAMPLING INITIATED AT: 13:35	SAMPLING ENDED AT: 13:54
PUMP OR TUBING DEPTH IN WELL: 42 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		FILTRATION EQUIPMENT TYPE: In-line filter	
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-357A-040116	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-357A-040116	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-357A-040116	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-357A-040116	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a brown color and minor effervescence.
 Sampling time: 13:35

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site			SITE LOCATION: Brunswick, GA		
WELL NO: MW-358B	SAMPLE ID: MW-358B-033016	DATE: 3/30/2016			

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 40 - 41.5 feet btoe	STATIC DEPTH TO WATER: 7.25 feet btoe	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 40.8 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT: 13:07				PURGING ENDED AT: 13:35				TOTAL VOLUME PURGED: 2.2 gallons	
INITIAL	FINAL		DEPTH TO WATER	pH	TEMP.	SP COND.	DISSOLVED OXYGEN	TURBIDITY	ORP	SP Gravity		
40.8	40.8		(feet btoe)	(standard units)	(°C)	(mS/cm)	(mg/L)	(NTUs)	(mV)	(sg)		
VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)										
0.20	0.20	260	7.45	11.01	20.63	28.44	1.0	2.89	-439.9	NM		
0.40	0.60	260	7.45	11.01	20.58	28.25	0.8	2.68	-456.2	NM		
0.40	1.00	260	7.45	11.00	20.60	28.21	0.8	2.41	-469.9	NM		
0.40	1.40	260	7.45	11.01	20.73	28.28	0.7	2.04	-477.7	NM		
0.40	1.80	260	7.45	11.01	20.67	28.25	0.7	1.98	-484.3	NM		
0.40	2.20	260	7.45	11.01	20.66	28.26	0.7	1.88	-481.6	NM		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: JC		SAMPLING INITIATED AT: 13:40		SAMPLING ENDED AT: 13:55	
PUMP OR TUBING DEPTH IN WELL: 40.8 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter	
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: No	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-358B-033016	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-358B-033016	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-358B-033016	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-358B-033016	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a dark brown color, no effervescence.
Sampling time: 13:40

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-501B	SAMPLE ID: MW-501B-040516	DATE: 4/5/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 39.9 - 44.9 feet btoc	STATIC DEPTH TO WATER: 5.71 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 42.4 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	11:21		12:19		2					
42.4	42.4					gallons					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:23	0.20	0.20	200	7.65	6.83	22.23	18.34	26.6	3.47	-94.2	NM
11:43	0.50	0.70	140	7.49	6.81	22.22	18.57	4.7	2.93	-116.7	NM
11:54	0.50	1.20	140	8.21	6.81	22.22	18.51	2.3	3.07	-107.7	NM
11:59	0.20	1.40	140	8.35	6.81	22.41	18.53	2.0	2.83	-114.4	NM
12:04	0.20	1.60	140	8.41	6.81	22.35	18.56	1.6	3.01	-127.9	NM
12:09	0.20	1.80	140	8.48	6.80	22.35	18.64	1.3	3.28	-135.9	NM
12:14	0.10	1.90	140	8.48	6.80	22.34	18.68	1.3	4.00	-137.1	NM
12:19	0.10	2.00	140	8.48	6.80	22.38	18.76	1.1	3.66	-138.4	1.0115

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: JC	SAMPLING INITIATED AT: 12:20	SAMPLING ENDED AT: 12:40
PUMP OR TUBING DEPTH IN WELL: 42.4 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N		TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-501B-040516	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-501B-040516	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-501B-040516	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-501B-040516	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a slight brown tint with some effervescence.
Sampling time: 12:20

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site			SITE LOCATION: Brunswick, GA		
WELL NO: MW-502A		SAMPLE ID: MW-502A-040516		DATE: 4/5/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 27.4 - 32.4 feet btoc	STATIC DEPTH TO WATER 6.02 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 29.9 feet) + 0.13 gallons = 0.21 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT: 9:54			PURGING ENDED AT: 10:40			TOTAL VOLUME PURGED: 2.45 gallons		
INITIAL 29.9 feet btoc		FINAL 29.9 feet btoc									

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
9:57	0.20	0.20	200	6.02	6.31	21.87	4.792	4.7	14.3	-99.6	NM
10:15	1.00	1.20	200	5.86	6.28	22.13	4.877	0.5	16.5	-172.9	NM
10:25	0.50	1.70	200	5.86	6.28	22.25	4.898	0.5	16.0	-170.4	NM
10:30	0.25	1.95	200	5.86	6.29	22.30	4.898	0.4	16.5	-180.8	NM
10:35	0.25	2.20	200	5.86	6.29	22.36	4.897	0.6	16.1	-196.2	NM
10:40	0.25	2.45	200	5.86	6.28	22.46	4.916	0.4	16.2	-188.6	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons			SAMPLER(S) SIGNATURE(S) / INITIALS: JC			SAMPLING INITIATED AT: 10:42		SAMPLING ENDED AT: 10:50	
PUMP OR TUBING DEPTH IN WELL: 29.9 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 μm				FILTRATION EQUIPMENT TYPE: In-line filter	
FIELD DECONTAMINATION:			PUMP: N		TUBING: N (dedicated)			DUPLICATE ID and time: N	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-502A-040516	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-502A-040516	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-502A-040516	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-502A-040516	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a slight brown color with lots of effervescence.
Sampling time: 10:42

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen:** all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity:** all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site	SITE LOCATION: Brunswick, GA
WELL NO: MW-502B	SAMPLE ID: MW-502B-040516
DATE: 4/5/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 38.7 - 43.7 feet btoc	STATIC DEPTH TO WATER: 6.4 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 41.2 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:			
INITIAL 41.2	FEET feet btoc	FINAL 41.2	FEET feet btoc	8:55		9:43		3.5			
TUBING DEPTH IN WELL:											
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
8:59	0.25	0.25	300	6.40	6.51	21.40	6.310	8.6	3.35	-45.5	NM
9:13	0.50	0.75	300	6.40	6.41	21.73	6.919	2.1	1.24	-69.6	NM
9:23	1.00	1.75	300	6.40	6.42	21.96	7.260	1.6	0.81	-79.0	NM
9:33	1.25	3.00	300	6.40	6.43	22.05	7.361	1.3	0.77	-82.5	NM
9:38	0.25	3.25	300	6.40	6.43	22.13	7.461	1.2	1.05	-82.6	NM
9:43	0.25	3.50	300	6.40	6.43	22.16	7.517	1.0	1.21	-81.3	1.0065

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: JC			SAMPLING INITIATED AT: 9:45		SAMPLING ENDED AT: 10:00		
PUMP OR TUBING DEPTH IN WELL: 41.2 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-502B-040516	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-502B-040516	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-502B-040516	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-502B-040516	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection. Purge water had a slight brown color with lots of effervescence. Sampling time: 9:45

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-503B	SAMPLE ID: MW-503B-040416	DATE: 4/4/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 39.9 - 44.9 feet btoc	STATIC DEPTH TO WATER 7.05 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 42.4 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:		PUMPING		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:			
INITIAL	FINAL	START TIME	STOP TIME	START TIME	STOP TIME	START TIME	STOP TIME	INITIAL	FINAL		
42.4 feet btoc	42.4 feet btoc	15:15		15:15		16:04		4 gallons			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
15:21	0.50	0.50	300	7.50	6.22	22.43	11.90	3.5	10.6	-153.0	NM
15:31	0.75	1.25	300	7.50	6.06	22.46	11.10	1.2	5.53	-78.5	NM
15:44	1.00	2.25	300	7.50	5.98	22.42	9.981	0.9	5.98	-73.8	NM
15:49	0.50	2.75	300	7.50	5.96	22.44	9.786	0.8	5.64	-61.9	NM
15:54	0.50	3.25	300	7.50	5.95	22.45	9.652	0.6	5.50	-62.8	NM
15:59	0.50	3.75	300	7.50	5.94	22.46	9.567	0.3	5.85	-59.7	NM
16:04	0.25	4.00	300	7.50	5.94	22.46	9.504	0.2	5.90	-56.2	1.0060

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: JC		SAMPLING INITIATED AT: 16:05		SAMPLING ENDED AT: 16:15			
PUMP OR TUBING DEPTH IN WELL: 42.4 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 μm		FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-503B-040416	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-503B-040416	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-503B-040416	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-503B-040416	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a dark brown color and no effervescence was observed.
 Sampling time: 16:05

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-504A	SAMPLE ID: MW-504A-040416	DATE: 4/4/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 31.6 - 36.6 feet btoc	STATIC DEPTH TO WATER: 6.66 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 34.1 feet) + 0.13 gallons = 0.22 gallons				

PUMP OR TUBING DEPTH IN WELL: INITIAL: 34.1 feet btoc				FINAL: 34.1 feet btoc		PURGING INITIATED AT: 8:50		PURGING ENDED AT: 9:59		TOTAL VOLUME PURGED: 3.5 gallons	
---	--	--	--	------------------------------	--	-----------------------------------	--	-------------------------------	--	---	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
8:54	0.25	0.25	200	6.82	6.40	21.69	6.779	161.2	8.15	-173.3	NM
8:59	0.25	0.50	200	6.84	6.44	22.11	7.284	46.3	8.45	-190.3	NM
9:04	0.25	0.75	200	6.83	6.45	22.19	7.374	19.8	7.30	-190.1	NM
9:09	0.25	1.00	200	6.83	6.45	22.30	7.318	16.2	7.86	-185.7	NM
9:14	0.25	1.25	200	6.84	6.46	22.39	7.287	14.6	7.04	-191.7	NM
9:19	0.25	1.50	200	6.83	6.46	22.38	7.293	14.2	6.92	-191.5	NM
9:24	0.25	1.75	200	6.83	6.45	22.46	7.338	13.1	6.94	-205.2	NM
9:29	0.25	2.00	200	6.83	6.46	22.55	7.371	11.3	7.11	-200.4	NM
9:34	0.25	2.25	200	6.82	6.46	22.57	7.393	11.1	7.54	-192.2	NM
9:39	0.25	2.50	200	6.83	6.45	22.59	7.401	10.4	7.05	-196.7	NM
9:49	0.25	3.00	200	6.82	6.46	22.68	7.447	8.6	7.15	-203.1	NM
9:54	0.25	3.25	200	6.82	6.46	22.75	7.470	8.4	7.23	-202.8	NM
9:59	0.25	3.50	200	6.82	6.46	22.83	7.492	7.8	7.19	-218.8	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: MJS			SAMPLING INITIATED AT: 10:05		SAMPLING ENDED AT: 10:21	
PUMP OR TUBING DEPTH IN WELL: 34.1 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 μm		FILTRATION EQUIPMENT TYPE: In-line filter		
FIELD DECONTAMINATION:		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-504A-040416	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-504A-040416	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-504A-040416	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-504A-040416	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a dark brown color.
 Sampling time: 10:05

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
 SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailor; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-504B	SAMPLE ID: MW-504B-040516	DATE: 4/5/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 41 - 46 feet btoc	STATIC DEPTH TO WATER: 4.69 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 43.5 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT:				PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL	FINAL		10:32				11:01			1.5 gallons	
43.5 feet btoc	43.5 feet btoc		DEPTH TO WATER	pH	TEMP.	SP COND.	DISSOLVED OXYGEN	TURBIDITY	ORP	SP Gravity	
(gallons)	(gallons)	(mL/min)	(feet btoc)	(standard units)	(°C)	(mS/cm)	(% saturation)	(NTUs)	(mV)	(sg)	
10:36	0.25	0.25	230	4.88	6.49	22.86	8.495	17.3	3.25	-88.5	NM
10:41	0.25	0.50	230	4.87	6.48	22.88	8.770	10.4	1.80	-105.4	NM
10:46	0.25	0.75	230	4.83	6.48	23.05	8.973	6.2	1.45	-126.4	NM
10:51	0.25	1.00	230	4.80	6.48	23.16	9.071	5.5	1.01	-135.7	NM
10:56	0.25	1.25	230	4.73	6.47	23.26	9.181	5.0	1.07	-136.8	NM
11:01	0.25	1.50	230	4.69	6.47	23.29	9.234	4.7	1.00	-137.7	1.0060

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons			SAMPLER(S) SIGNATURE(S) / INITIALS: MJS			SAMPLING INITIATED AT: 11:04		SAMPLING ENDED AT: 11:18		
PUMP OR TUBING DEPTH IN WELL: 43.5 feet			TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N		FILTER SIZE: 0.45 µm			
FIELD DECONTAMINATION:			PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time: N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-504B-040516	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/	
MW-504B-040516	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-504B-040516	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-504B-040516	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a light brown color with little effervescence.
 Sampling time: 11:04

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-505A	SAMPLE ID: MW-505A-040516	DATE: 4/5/2016	

PURGING DATA			
WELL DIAMETER:	TUBING DIAMETER	WELL SCREEN INTERVAL DEPTH	STATIC DEPTH TO WATER
2 inches	1/4 inch	32.8 - 37.8 feet btoc	6.66 feet btoc
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME			
= (0.0026 gallons/foot x 35.3 feet) + 0.13 gallons = 0.22 gallons			

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:				
INITIAL	FINAL	12:34		13:30		2.75 gallons				
35.3 feet btoc	35.3 feet btoc	DEPTH TO WATER	pH	TEMP.	SP COND.	DISSOLVED OXYGEN	TURBIDITY	ORP	SP Gravity	
(gallons)	(gallons)	(feet btoc)	(standard units)	(°C)	(mS/cm)	(% saturation)	(NTUs)	(mV)	(sg)	
0.25	0.25	210	6.74	6.45	24.12	10.18	141.8	26.8	-168.3	NM
0.25	0.50	210	6.75	6.49	24.08	11.08	12.1	22.2	-198.1	NM
0.25	0.75	210	6.75	6.49	24.10	11.31	12.5	20.8	-204.9	NM
0.25	1.00	210	6.76	6.48	24.19	11.36	12.8	19.7	-210.9	NM
0.25	1.25	210	6.75	6.49	24.29	11.38	11.6	20.2	-227.6	NM
0.25	1.50	210	6.74	6.49	24.40	11.41	10.2	20.1	-232.0	NM
0.25	1.75	210	6.74	6.48	24.39	11.36	9.0	19.8	-231.5	NM
0.25	2.00	210	6.74	6.48	24.40	11.38	7.6	19.7	-237.7	NM
0.25	2.25	210	6.75	6.48	24.43	11.37	7.1	19.5	-236.6	NM
0.25	2.50	210	6.75	6.48	24.43	11.34	6.4	19.5	-240.0	NM
0.25	2.75	210	6.75	6.48	24.47	11.32	5.9	19.5	-233.7	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing - feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA			
SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: MJS	SAMPLING INITIATED AT: 13:33	SAMPLING ENDED AT: 13:46
PUMP OR TUBING DEPTH IN WELL: 35.3 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-505A-040516	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-505A-040516	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-505A-040516	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-505A-040516	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection. Purge water had a dark brown color with effervescence. Sampling Time: 13:33

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-505B	SAMPLE ID: MW-505B-040516	DATE: 4/5/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 40.3 - 45.3 feet btoc	STATIC DEPTH TO WATER 5.83 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 42.8 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT: 13:53		PURGING ENDED AT: 14:57		TOTAL VOLUME PURGED: 3.25 gallons
INITIAL 42.8 feet btoc	FINAL 42.8 feet btoc					

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
13:57	0.25	0.25	190	6.47	6.55	24.57	11.57	18.9	73.6	-99.0	NM
14:02	0.25	0.50	190	7.68	6.53	24.52	11.49	3.8	71.3	-130.2	NM
14:07	0.25	0.75	190	7.74	6.53	24.63	11.52	3.5	71.1	-127.1	NM
14:12	0.25	1.00	190	7.80	6.52	24.76	12.42	3.4	59.6	-131.1	NM
14:17	0.25	1.25	190	7.84	6.52	24.72	12.78	3.2	54.2	-164.6	NM
14:22	0.25	1.50	190	7.85	5.55	24.72	13.18	3.1	48.9	-178.8	NM
14:27	0.25	1.75	190	7.87	6.56	24.70	13.42	3.0	42.8	-185.8	NM
14:32	0.25	2.00	190	7.88	6.55	24.65	13.70	2.8	39.3	-187.2	NM
14:37	0.25	2.25	190	7.90	6.56	24.68	14.15	2.6	38.4	-175.7	NM
14:42	0.25	2.50	190	7.91	6.57	24.69	14.67	2.6	37.5	-178.9	NM
14:47	0.25	2.75	190	7.85	6.57	24.72	15.08	2.4	36.8	-168.9	NM
14:52	0.25	3.00	190	7.80	6.57	24.72	15.36	2.3	35.8	-167.6	NM
14:57	0.25	3.25	190	7.78	6.57	24.72	15.62	2.2	35.9	-177.7	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing - feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: MJS	SAMPLING INITIATED AT: 15:00	SAMPLING ENDED AT: 15:14
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PUMP OR TUBING DEPTH IN WELL: 42.8 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N		TUBING: N (dedicated) DUPLICATE ID and time: N	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
					TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-505B-040516	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-505B-040516	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-505B-040516	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-505B-040516	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
 Purge water had a dark brown color.
 Sampling Time: 15:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site			SITE LOCATION: Brunswick, GA		
WELL NO: MW-507B	SAMPLE ID: MW-507B-033016	DATE: 3/30/2016			

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 49.1 - 54.1 feet btoC	STATIC DEPTH TO WATER: 9.34 feet btoC	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 51.6 feet) + 0.13 gallons = 0.26 gallons				

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT: 14:00			PURGING ENDED AT: 14:55			TOTAL VOLUME PURGED: 1.9 gallons	
INITIAL	FINAL										
51.6 feet btoC	51.6 feet btoC										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoC)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
14:05	0.20	0.20	140	9.95	9.09	22.96	20.13	2.7	5.2	-338.0	NM
14:45	1.50	1.50	140	9.85	8.78	22.85	29.83	1.2	2.7	-306.8	NM
14:50	0.20	1.70	140	9.85	8.78	23.00	30.14	1.2	2.29	-290.9	NM
14:55	0.20	1.90	140	9.85	8.77	23.35	30.56	1.1	1.88	-303.5	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons			SAMPLER(S) SIGNATURE(S) / INITIALS: JC			SAMPLING INITIATED AT: 15:00		SAMPLING ENDED AT: 15:15			
PUMP OR TUBING DEPTH IN WELL: 51.6 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N		FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION: N			PUMP: N			TUBING: N (dedicated)			DUPLICATE ID and time: No		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH					
MW-507B-033016	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/		
MW-507B-033016	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/		
MW-507B-033016	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/		
MW-507B-033016	1	PE	500mL	--	--	--	2540C TDS	APP	/		

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a brown color, no effervescence.
Sampling Time: 15:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-508B	SAMPLE ID: MW-508B-033016	DATE: 3/30/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 49.7 - 54.7 feet btoc	STATIC DEPTH TO WATER: 8.85 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 52.2 feet) + 0.13 gallons = 0.27 gallons				

PUMP OR TUBING DEPTH IN WELL:		PUMPING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL 52.2 feet btoc	FINAL 52.2 feet btoc	15:42	17:00	gallons		gallons					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
15:45	0.20	0.20	140	9.25	7.78	22.90	40.27	1.9	7.69	-341.1	NM
15:50	0.20	0.40	140	9.31	7.80	22.60	40.10	2.0	7.73	-341.7	NM
15:55	0.20	0.60	140	9.34	7.48	22.39	39.85	3.7	7.48	-342.8	NM
16:00	0.20	0.80	140	9.35	7.79	22.55	39.84	3.3	6.90	-341.8	NM
16:05	0.20	1.00	140	9.35	7.71	22.85	39.89	2.2	5.80	-338.4	NM
16:07	0.20	1.20	140	9.35	7.67	22.79	39.82	2.1	6.22	-341.2	NM
16:15	0.20	1.40	140	9.35	7.47	22.48	38.97	1.7	4.84	-337.1	NM
16:20	0.20	1.60	140	9.35	7.43	22.34	38.54	1.0	4.58	-334.8	NM
16:25	0.20	1.80	140	9.35	7.37	22.15	38.24	0.7	4.52	-333.5	NM
16:30	0.20	2.00	140	9.35	7.31	21.99	37.93	0.5	4.28	-332.5	NM
16:35	0.20	2.20	140	9.35	7.23	22.40	38.09	0.6	3.76	-330.9	NM
16:40	0.20	2.40	140	9.35	7.21	22.47	38.10	0.7	3.76	-330.9	NM
16:45	0.20	2.60	140	9.35	7.19	22.62	38.10	0.6	4.12	-329.5	NM
16:50	0.20	2.80	140	9.35	7.16	22.55	37.91	0.6	3.96	-328.9	NM
16:55	0.20	3.00	140	9.35	7.13	22.39	37.67	0.7	4.01	-320.6	NM
17:00	0.20	3.20	140	9.35	7.10	22.38	37.49	0.7	3.85	-324.4	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Julien Chambert / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: JC	SAMPLING INITIATED AT: 17:00	SAMPLING ENDED AT: 17:20
PUMP OR TUBING DEPTH IN WELL: 52.2 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N FILTER SIZE: 0.45 µm	FILTRATION EQUIPMENT TYPE: In-line filter
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: No

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-508B-033016	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-508B-033016	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-508B-033016	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-508B-033016	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had dark brown color, no effervescence.
Sampling Time: 17:00

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-510B	SAMPLE ID: MW-510B-041816	DATE: 4/18/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 42.7 - 47.4 feet btoc	STATIC DEPTH TO WATER: 7.57 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 45 feet) + 0.13 gallons = 0.25 gallons				

TIME	VOLUME PURGED (gallons)	PUMP OR TUBING DEPTH IN WELL:		DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
		INITIAL	FINAL								
	45	45	45								
15:18	0.25	0.25	200	8.54	6.55	22.36	28.49	5.5	3.80	-147.7	NM
15:23	0.25	0.50	200	9.42	6.55	22.36	28.91	0.8	2.79	-193.3	NM
15:28	0.25	0.75	200	10.33	6.55	22.33	29.14	0.5	2.55	-215.1	NM
15:33	0.25	1.00	200	11.42	6.56	22.32	29.13	0.5	2.14	-222.1	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: MJS	SAMPLING INITIATED AT: 15:35	SAMPLING ENDED AT: 15:48
PUMP OR TUBING DEPTH IN WELL: 45 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N		TUBING: N (dedicated) DUPLICATE ID and time: N	

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
					TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-510B-041816	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-510B-041816	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-510B-041816	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-510B-041816	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Water levels could not stabilize, switch to contingent purge method. On 4/5/16, three wells volumes (21 gallons) were pumped out. Well recharge was very slow and, on 4/18/16, parameters stable prior to sample collection at the exception of water levels. Purge water had very dark brown color with slight effervescence. Sampling Time: 15:35

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-511B	SAMPLE ID: MW-511B-040416	DATE: 4/4/2016	

PURGING DATA										
WELL DIAMETER: 2 inches	TUBING DIAMETER 1/4 inch	WELL SCREEN INTERVAL DEPTH 46.6 - 51.6 feet btoc				STATIC DEPTH TO WATER 7.3 feet btoc		PURGE PUMP TYPE OR BAILER: PP		
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 49.1 feet) + 0.13 gallons = 0.26 gallons										

PUMP OR TUBING DEPTH IN WELL: INITIAL: 49.1 feet btoc FINAL: 49.1 feet btoc				PURGING INITIATED AT: 12:53			PURGING ENDED AT: 13:25			TOTAL VOLUME PURGED: 1.5 gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
13:00	0.25	0.25	180	7.19	6.60	21.94	9.346	37.0	4.48	-31.5	NM
13:05	0.25	0.50	180	7.20	6.58	21.92	9.154	36.9	3.45	-42.5	NM
13:10	0.25	0.75	180	7.18	6.57	21.92	9.054	12.7	2.55	-52.1	NM
13:15	0.25	1.00	180	7.21	6.57	21.91	8.972	9.5	2.16	-61.2	NM
13:20	0.25	1.25	180	7.20	6.56	21.98	8.961	7.8	1.99	-70.2	NM
13:25	0.25	1.50	180	7.19	6.55	22.05	8.950	7.3	2.07	-72.4	1.0075
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 BTOC = Below top of casing – feet below top of casing which includes above grade riser											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA											
SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons			SAMPLER(S) SIGNATURE(S) / INITIALS: MJS				SAMPLING INITIATED AT: 13:30		SAMPLING ENDED AT: 13:50		
PUMP OR TUBING DEPTH IN WELL: 49.1 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N		FILTER SIZE: 0.45 μm		FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION: N		PUMP: N		TUBING: N (dedicated)		DUPLICATE ID and time:		N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH					
MW-511B-040416	1	PE	250mL	HNO ₃	--	--		6010B Metals 7470A Hg	APP	/	
MW-511B-040416	1	PE	250mL	--	--	--		9040B pH 2320B Alkalinity	APP	/	
MW-511B-040416	1	PE	250mL	--	--	--		6010B Dissolved Silica	APP	/	
MW-511B-040416	1	PE	500mL	--	--	--		2540C TDS	APP	/	

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purge water had a light brown color.
Sampling Time: 13:30

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO:	MW-512B	SAMPLE ID:	MW-512B-040416
		DATE:	4/4/2016

PURGING DATA					
WELL DIAMETER:	TUBING DIAMETER	WELL SCREEN INTERVAL DEPTH		STATIC DEPTH TO WATER	PURGE PUMP TYPE OR BAILER:
2 inches	1/4 inch	49.1	-	54.1 feet btoc	7.84 feet btoc
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME					
= (0.0026 gallons/foot x 51.6 feet) + 0.13 gallons = 0.26 gallons					

PUMP OR TUBING DEPTH IN WELL:											
INITIAL		FINAL		PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
51.6		51.6		10:50			11:22			1.5	
feet btoc		feet btoc		feet btoc			feet btoc			gallons	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
10:57	0.25	0.25	180	8.89	6.90	22.08	21.48	111.8	4.05	-69.1	NM
11:02	0.25	0.50	180	9.45	6.87	22.25	21.73	85.8	2.63	-105.7	NM
11:07	0.25	0.75	180	9.80	6.87	22.33	21.82	25.0	2.00	-108.3	NM
11:12	0.25	1.00	180	9.96	6.88	22.31	21.94	19.1	2.06	-117.4	NM
11:17	0.25	1.25	180	10.07	6.88	22.42	22.09	17.3	1.83	-131.6	NM
11:22	0.25	1.50	180	10.11	6.88	22.42	22.12	16.2	1.57	-132.3	1.0160
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 BTOC = Below top of casing – feet below top of casing which includes above grade riser											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA			
SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S) / INITIALS:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Matt Scheuer / Parsons	MJS	11:25	11:48
PUMP OR TUBING DEPTH IN WELL:	TUBING MATERIAL CODE:	FIELD-FILTERED:	FILTER SIZE:
51.6 feet	Teflon-lined PE	N	0.45 µm
FIELD DECONTAMINATION:	PUMP:	TUBING:	DUPLICATE ID and time:
	N	N (dedicated)	N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-512B-040416	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-512B-040416	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-512B-040416	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-512B-040416	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: DO goal of <10% saturation not achieved. Per SOP, all other parameters and water levels were stable prior to sample collection.
Purge water had a light brown color.
Sampling Time: 11:25

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)	
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)	

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-513A	SAMPLE ID: MW-513A-040416	DATE: 4/4/2016	

PURGING DATA

WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 34.5 - 39.5 feet btoc	STATIC DEPTH TO WATER: 8.02 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 37.0 feet) + 0.13 gallons = 0.23 gallons				

PUMP OR TUBING DEPTH IN WELL:		INITIAL		FINAL		PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:
37.0 feet btoc		37.0 feet btoc		15:03			16:05			3 gallons		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)	
15:10	0.25	0.25	180	7.83	6.24	23.26	3.709	196.7	72	-74.7	NM	
15:15	0.25	0.50	180	7.51	6.24	22.89	3.669	14.3	73	-89.7	NM	
15:20	0.25	0.75	180	7.50	6.22	22.68	3.649	11.4	74	-99.3	NM	
15:25	0.25	1.00	180	7.49	6.20	22.60	3.651	11.9	74.0	-106.3	NM	
15:30	0.25	1.25	180	7.50	6.20	22.56	3.650	11.1	75.8	-130.6	NM	
15:35	0.25	1.50	180	7.51	6.21	22.48	3.654	10.3	76.1	-134.8	NM	
15:40	0.25	1.75	180	7.52	6.18	23.21	3.720	8.8	77.0	-149.7	NM	
15:45	0.25	2.00	180	7.49	6.18	23.05	3.711	8.5	76.6	-151.0	NM	
15:50	0.25	2.25	180	7.49	6.19	23.00	3.711	7.9	73.9	-149.0	NM	
15:55	0.25	2.50	180	7.49	6.20	23.02	3.711	7.1	76.5	-152.2	NM	
16:00	0.25	2.75	180	7.49	6.19	23.04	3.718	6.2	76.8	-139.5	NM	
16:05	0.25	3.00	180	7.49	6.18	23.03	3.713	6.1	76.9	-140.0	NM	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: MJS	SAMPLING INITIATED AT: 16:10	SAMPLING ENDED AT: 16:30
PUMP OR TUBING DEPTH IN WELL: 37.0 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: Y	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION:	PUMP: N	TUBING: N (dedicated)	DUPLICATE ID and time: N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH				
MW-513A-040416	2	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	Field filtered sample for diss. Hg	
MW-513A-040416	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/	
MW-513A-040416	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/	
MW-513A-040416	1	PE	500mL	--	--	--	2540C TDS	APP	/	

REMARKS: Turbidity goal of < 50 NTU not achieved, a field filtered sample was collected for dissolved mercury analysis. Per SOP, parameters and water levels were stable prior to sample collection. Purge water had a black color. Sampling Time: 16:10

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-513B	SAMPLE ID: MW-513B-040416	DATE: 4/4/2016	

PURGING DATA					
WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 43.8	STATIC DEPTH TO WATER: 8.02 feet btoc	PURGE PUMP TYPE OR BAILER: PP	
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 46.3 feet) + 0.13 gallons = 0.25 gallons					

PUMP OR TUBING DEPTH IN WELL:				PURGING INITIATED AT:			PURGING ENDED AT:			TOTAL VOLUME PURGED:	
INITIAL	FINAL			16:32			17:02			1.5 gallons	
46.3 feet btoc	46.3 feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
16:37	0.25	0.25	170	8.98	10.77	22.38	39.15	2.9	48.5	-390.9	NM
16:42	0.25	0.50	170	9.73	10.82	22.60	39.90	1.6	7.21	-402.7	NM
16:47	0.25	0.75	170	10.44	10.84	22.55	39.89	1.4	10.4	-409.9	NM
16:52	0.25	1.00	170	11.18	10.85	22.55	39.96	1.4	8.70	-408.3	NM
16:57	0.25	1.25	170	12.01	10.85	22.56	39.93	1.4	9.92	-397.3	NM
17:02	0.25	1.50	170	12.42	10.85	22.60	39.99	1.4	7.51	-402.9	1.0315

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing - feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA									
SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: MUS		SAMPLING INITIATED AT: 17:07		SAMPLING ENDED AT: 17:27			
PUMP OR TUBING DEPTH IN WELL: 46.3 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter			
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated) DUPLICATE ID and time: N									
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION					INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
MW-513B-040416	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
MW-513B-040416	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-513B-040416	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-513B-040416	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection.
Purged water had a dark brown color.
Sampling time: 17:07

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: MW-514A	SAMPLE ID: MW-514A-041816	DATE: 4/18/2016	

PURGING DATA				
WELL DIAMETER: 2 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 34.8 - 39.8 feet btoc	STATIC DEPTH TO WATER: 9.13 feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 37.3 feet) + 0.13 gallons = 0.23 gallons				

TIME	PUMP OR TUBING DEPTH IN WELL:		PURGING RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
	INITIAL 37.3 feet btoc	FINAL 37.3 feet btoc									
13:10	0.25	0.25	170	9.27	6.41	24.01	6.883	7.9	8.11	-84.7	NM
13:15	0.25	0.50	170	9.31	6.39	23.32	6.704	2.9	6.69	-88.2	NM
13:20	0.25	0.75	170	9.31	6.39	22.89	6.601	2.0	5.39	-92.0	NM
13:25	0.25	1.00	170	9.32	6.38	22.66	6.494	1.6	4.06	-95.7	NM
13:30	0.25	1.25	170	9.32	6.37	22.53	6.431	1.4	2.77	-98.0	NM
13:35	0.25	1.50	170	9.32	6.37	22.50	6.408	1.4	2.61	-98.6	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION:		SAMPLER(S) SIGNATURE(S) / INITIALS:		SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
Matt Scheuer / Parsons		MJS		13:37		13:49	
PUMP OR TUBING DEPTH IN WELL: 37.3 feet		TUBING MATERIAL CODE: Teflon-lined PE		FIELD-FILTERED: N FILTER SIZE: 0.45 µm		FILTRATION EQUIPMENT TYPE: In-line filter	
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated) DUPLICATE ID and time: N				SAMPLE PRESERVATION			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
MW-514A-041816	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
MW-514A-041816	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
MW-514A-041816	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters and water levels were stable prior to sample collection. Purge water light brown color. Sampling Time: 13:37

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-2	SAMPLE ID: EW-02-033116	DATE: 3/31/2016	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 32 - 56 feet btoc	STATIC DEPTH TO WATER: N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = (0.0026 gallons/foot x 44 feet) + 0.13 gallons = 0.24 gallons				

PUMP OR TUBING DEPTH IN WELL:		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED:					
INITIAL	FINAL	15:12		17:01		5.5					
44.0	44.0										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
15:16	0.25	0.25	190	N/A	6.43	22.85	9.334	18.2	19.9	-86.8	NM
15:21	0.25	0.50	190	N/A	6.39	22.90	11.61	1.8	23.5	-153.9	NM
15:26	0.25	0.75	190	N/A	6.37	22.90	11.56	0.8	27.0	-162.0	NM
15:31	0.25	1.00	190	N/A	6.36	22.98	11.41	0.7	29.4	-170.5	NM
15:36	0.25	1.25	190	N/A	6.36	22.99	11.29	0.5	30.4	-167.9	NM
15:41	0.25	1.50	190	N/A	6.36	22.91	11.16	0.4	32.8	-166.7	NM
15:46	0.25	1.75	190	N/A	6.36	23.09	11.11	0.2	31.9	-169.3	NM
15:51	0.25	2.00	190	N/A	6.36	23.06	10.99	0.0	30.6	-172.5	NM
15:56	0.25	2.25	190	N/A	6.36	23.08	10.87	0.1	30.6	-177.6	NM
16:01	0.25	2.50	190	N/A	6.36	23.80	10.86	0.0	30.7	-178.2	NM
16:06	0.25	2.75	190	N/A	6.36	23.12	10.79	0.0	28.5	-178.8	NM
16:11	0.25	3.00	190	N/A	6.36	22.91	10.71	0.0	26.3	-182.9	NM
16:16	0.25	3.25	190	N/A	6.37	23.05	10.75	0.0	24.4	-184.3	NM
16:21	0.25	3.50	190	N/A	6.37	23.18	10.77	0.0	22.2	-188.2	NM
16:26	0.25	3.75	190	N/A	6.37	23.26	10.79	0.0	21.3	-190.9	NM
16:31	0.25	4.00	190	N/A	6.38	22.98	10.66	0.0	19.4	-195.3	NM
16:36	0.25	4.25	190	N/A	6.38	23.95	10.71	0.0	17.4	-196.2	NM
16:41	0.25	4.50	190	N/A	6.38	23.27	10.72	0.0	15.3	-196.9	NM
16:46	0.25	4.75	190	N/A	6.39	23.38	10.79	0.0	11.2	-196.4	NM
16:51	0.25	5.00	190	N/A	6.39	23.32	10.79	0.0	9.98	-195.1	NM
16:56	0.25	5.25	190	N/A	6.39	23.3	10.83	0.0	9.92	-195.1	NM
17:01	0.25	5.50	190	N/A	6.39	23.13	10.77	0.0	9.63	-195.7	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons	SAMPLER(S) SIGNATURE(S) / INITIALS: MJS	SAMPLING INITIATED AT: 17:11	SAMPLING ENDED AT: 17:21
PUMP OR TUBING DEPTH IN WELL: 44.0 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP: N TUBING: N (dedicated)		DUPLICATE ID and time: No	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-02-033116	1	PE	250mL	HNO ₃	--	--	6010B Metals 7470A Hg	APP	/
EW-02-033116	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-02-033116	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-02-033116	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Sampling time: 17:11

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **N/A**: not applicable **NM**: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: **pH**: ± 0.1 unit
Specific Conductance: ± 5% **Dissolved Oxygen**: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L **Turbidity**: all readings ≤ 10 NTU; or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: LCP Chemicals Site		SITE LOCATION: Brunswick, GA	
WELL NO: EW-11	SAMPLE ID: EW-11-032916	DATE: 3/29/2016	

PURGING DATA

WELL DIAMETER: 1 inches	TUBING DIAMETER: 1/4 inch	WELL SCREEN INTERVAL DEPTH: 44 - 49 feet btoc	STATIC DEPTH TO WATER: N/A feet btoc	PURGE PUMP TYPE OR BAILER: PP
Tubing-in-Screen Interval Purge: 1 EQUIPMENT VOL. = (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
= (0.0026 gallons/foot x 46.5 feet) + 0.13 gallons = 0.25 gallons				

PUMP OR TUBING DEPTH IN WELL:			PURGING INITIATED AT: 11:11				PURGING ENDED AT: 11:49				TOTAL VOLUME PURGED: 2 gallons
INITIAL	FINAL										
46.5	46.5										
feet btoc	feet btoc										
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet btoc)	pH (standard units)	TEMP. (°C)	SP COND. (mS/cm)	DISSOLVED OXYGEN (% saturation)	TURBIDITY (NTUs)	ORP (mV)	SP Gravity (sg)
11:14	0.25	0.25	190	N/A	6.59	22.26	10.20	15.7	15.7	-79.3	NM
11:19	0.25	0.50	190	N/A	6.54	21.98	11.54	3.9	14.8	-96.1	NM
11:24	0.25	0.75	190	N/A	6.52	21.94	12.15	2.1	14.8	-103.1	NM
11:29	0.25	1.00	190	N/A	6.54	22.11	13.13	1.6	14.6	-106.7	NM
11:34	0.25	1.25	190	N/A	6.51	22.16	13.67	1.4	10.8	-119.7	NM
11:39	0.25	1.50	190	N/A	6.52	22.27	13.86	1.1	6.41	-158.9	NM
11:44	0.25	1.75	190	N/A	6.52	22.26	14.06	1.1	5.97	-168.2	NM
11:49	0.25	2.00	190	N/A	6.53	22.24	14.32	1.0	5.81	-176.5	NM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 BTOC = Below top of casing – feet below top of casing which includes above grade riser
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Matt Scheuer / Parsons		SAMPLER(S) SIGNATURE(S) / INITIALS: MJS		SAMPLING INITIATED AT: 11:57	SAMPLING ENDED AT: 12:05
PUMP OR TUBING DEPTH IN WELL: 46.5 feet	TUBING MATERIAL CODE: Teflon-lined PE	FIELD-FILTERED: N	FILTER SIZE: 0.45 μm	FILTRATION EQUIPMENT TYPE: In-line filter	
FIELD DECONTAMINATION: N		PUMP:	TUBING:	N (dedicated) DUPLICATE ID and time: No	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	Additional Comments
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH			
EW-11-032916	1	PE	250mL	HNO₃	--	--	6010B Metals 7470A Hg	APP	/
EW-11-032916	1	PE	250mL	--	--	--	9040B pH 2320B Alkalinity	APP	/
EW-11-032916	1	PE	250mL	--	--	--	6010B Dissolved Silica	APP	/
EW-11-032916	1	PE	500mL	--	--	--	2540C TDS	APP	/

REMARKS: Per SOP, parameters were stable prior to sample collection.
 Water level could not be recorded in extraction wells.
 Purge water had a light brown color.
 Sampling time: 11:57

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: N/A: not applicable; NM: not measured. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings: pH: ± 0.1 unit
 Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 10% saturation; optionally, ± 0.2 mg/L Turbidity: all readings ≤ 10 NTU; or ± 10%

Appendix D:
Laboratory Analytical Data

Location ID				EW-1	EW-1	EW-1	EW-1	EW-1	EW-1	EW-1	EW-1	EW-2				
Date				09/04/2013	02/27/2014	09/23/2014	04/27/2015	10/06/2015	04/19/2016	09/05/2013						
Field Sample ID				EW-01-090413	EW-1-022714	EW-1-092314	EW-1-042715	EW-1-100615	EW-01-041916	EW-02-090513						
SDG				680-93870-1	680-99043-1	680-105604-2	680-111968-1&2	680-117551-1	680-124423-1	680-93954-1						
Matrix				WATER	WATER	WATER	WATER	WATER	WATER	WATER						
Sample Purpose				REG	REG	REG	REG	REG	REG	REG						
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS						
Method	Parameter Name	Units	Filtered													
110.2	pH	S.U.	N	10.3												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	350	2500	2400	2100	2400	2500	510						
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	290	25	U	50	U	50	U	50	U	460			
SM2320B	ALKALINITY, TOTAL	mg/L	N	690	2500	2400	2100	2400	2500	1000						
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	3500	5700	4700	6800	H	8800	7500	5200					
SM3500-FeD	FERROUS IRON	ug/L	N	2900	HF	14000	HF				1500	HF				
SM4500S2-E	SULFIDE	mg/L	N													
SM4500S2-F	SULFIDE	mg/L	N													
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N													
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	72	32							260				
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	74	37							230				
SW6010	ALUMINUM	mg/L	N	2.1	0.55	1.6	0.93	0.52	0.47	12						
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	20	U	20	U	5.3	U			
SW6010	ARSENIC	mg/L	N	0.038	0.0069	J	0.023	0.021	0.015	J	0.0081	J	0.024			
SW6010	BARIIUM	mg/L	N	0.2	0.051	0.13	0.097	0.1	0.071	0.28						
SW6010	BERYLLIUM	mg/L	N	0.0038	J	0.0042	0.0077	0.0056	0.0045	0.0036	J	0.011				
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.002	U			
SW6010	CALCIUM	mg/L	N	14	18	14	38	26	28	21						
SW6010	CHROMIUM	mg/L	N	0.07	0.069	0.086	0.075	0.074	0.059	0.12						
SW6010	COBALT	mg/L	N	0.002	J	0.01	U	0.01	U	0.01	U	0.00095	U			
SW6010	COPPER	mg/L	N	0.0087	J	0.02	U	0.0067	J	0.0075	J	0.0046	J	0.0019	U	
SW6010	IRON	mg/L	N	5.8	30	14	22	22	9.8	1.1						
SW6010	LEAD	mg/L	N	0.041	0.0045	J	0.0074	J	0.0075	J	0.0049	J	0.0042	J		
SW6010	MAGNESIUM	mg/L	N	0.64	5.7	2.7	9.9	12	9.2	1						
SW6010	MANGANESE	mg/L	N	0.046	0.6	0.32	0.45	0.53	0.36	0.032						
SW6010	NICKEL	mg/L	N	0.014	J	0.04	U	0.0065	J	0.0067	J	0.04	U	0.016	J	
SW6010	POTASSIUM	mg/L	N	12	13	10	19	20	22	5.1						
SW6010	RESPIRABLE QUARTZ	ug/L	Y	300000	84000	120000	91000	150000	120000	64000						
SW6010	SELENIUM	mg/L	N	0.0064	U	0.02	U	0.0076	J	0.009	J	0.015	J	0.02	U	
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.01	U	0.01	U	0.00089	U	
SW6010	SODIUM	mg/L	N	1100	2400	2000	2300	3800	3100	1600						
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	U	0.0088	U	
SW6010	VANADIUM	ug/L	N	110	21	48	40	37								
SW6010	ZINC	ug/L	N	43	9.6	J	26	26	11	J	20	U	15	J		
SW7470	MERCURY	ug/L	N	50	0.53	3.8	2.1	3.3	1.1	60						
SW7470	MERCURY	ug/L	Y													
SW9034	SULFIDE	mg/L	N	10	U	10	U					10	U			
SW9038	SULFATE	mg/L	N	25	U	15						100	U			
SW9040	pH	S.U.	N		6.83	H	7.13	H	6.66	H	7.71	H	6.68	HF	10.2	H
SW9056	CHLORIDE	mg/L	N													
SW9056	SULFATE	mg/L	N													
SW9251	CHLORIDE	mg/L	N	1400	2000							1900				

Analytical Laboratory: TestAmerica Savannah
 5102 LaRoche Avenue, Savannah, GA 31404

- Qualifiers:
- U Indicates the analyte was analyzed for but not detected.
 - J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - H Sample was prepped or analyzed beyond the specified holding time.
 - HF Field parameter with a holding time of 15 minutes.
 - F Duplicate RPD exceeds the control limit.
 - B Compound was found in the blank and sample.

Location ID		EW-2		EW-2		EW-2		EW-2		EW-2		EW-2		EW-2	
Date		09/05/2013		02/27/2014		09/23/2014		04/29/2015		04/29/2015		10/06/2015		03/31/2016	
Field Sample ID		EW-022-090513		EW-2-022714		EW-2-092314		EW-2-042915		EW-2-D-042915		EW-2-100615		EW-02-033116	
SDG		680-93954-1		680-99043-1		680-105604-2		680-112022-1&2		680-112022-1&2		680-117551-1		680-123652-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		FD		REG		REG		REG		FD		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	530		2700		340		4400		4400		3500	3400
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	470		50	U	5.0	U	25	U	25	U	50	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	1100		2700		340		4400		4400		3500	3400
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	4300		6200		550		5100		5700		7700	6200
SM3500-FeD	FERROUS IRON	ug/L	N	1700	HF	4200	HF								
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	250		190									
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	230		140									
SW6010	ALUMINUM	mg/L	N	12		7.4		0.55		1.8		1.7		0.96	2.1
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	20	U	20	U	20	U	20	20
SW6010	ARSENIC	mg/L	N	0.022		0.022		0.02	U	0.02	U	0.02	U	0.02	0.02
SW6010	BARIUM	mg/L	N	0.27		0.23		0.014		0.11		0.11		0.06	0.07
SW6010	BERYLLIUM	mg/L	N	0.011		0.0094		0.004	U	0.002	J	0.0019	J	0.0017	0.0013
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	0.005
SW6010	CALCIUM	mg/L	N	21		25		62		52		52		37	42
SW6010	CHROMIUM	mg/L	N	0.11		0.15		0.0021	J	0.052		0.041		0.042	0.051
SW6010	COBALT	mg/L	N	0.00095	U	0.001	J	0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	COPPER	mg/L	N	0.0019	U	0.0072	J	0.01	J	0.0023	J	0.02	U	0.0031	0.0036
SW6010	IRON	mg/L	N	0.99		3.5		1.2		4.5		4.4		2.9	3.8
SW6010	LEAD	mg/L	N	0.004	U	0.0099	J	0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	MAGNESIUM	mg/L	N	1.1		11		8.5		19		19		13	14
SW6010	MANGANESE	mg/L	N	0.033		0.16		0.11		0.33		0.32		0.26	0.46
SW6010	NICKEL	mg/L	N	0.014	J	0.019	J	0.04	U	0.0046	J	0.0036	J	0.0057	0.0044
SW6010	POTASSIUM	mg/L	N	5.2		6.5		9.2		15		15		14	21
SW6010	RESPIRABLE QUARTZ	ug/L	Y	66000		67000		22000		56000		56000		66000	59000
SW6010	SELENIUM	mg/L	N	0.0064	U	0.013	J	0.02	U	0.015	J	0.014	J	0.016	0.02
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	SODIUM	mg/L	N	1600		1800		100		3300		3200		3300	2500
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	0.025
SW6010	VANADIUM	ug/L	N	380		240		6.6	J	110		110		96	
SW6010	ZINC	ug/L	N	14	J	20	U	8.8	J	20	U	20	U	20	20
SW7470	MERCURY	ug/L	N	71		6.7		0.60		2.7		3.0		3.6	3.2
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N	10	U	10	U								
SW9038	SULFATE	mg/L	N	100	U	12									
SW9040	pH	S. U.	N	10.2	H	7.00	H	7.64	H	6.82		6.78		7.74	6.88
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N	1900		2100									

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		EW-3		EW-3		EW-3		EW-3		EW-3		EW-3		EW-4	
Date		09/05/2013		02/27/2014		09/29/2014		04/30/2015		10/06/2015		03/31/2016		11/21/2013	
Field Sample ID		EW-03-090513		EW-3-022714		EW-3-092914		EW-3-043015		EW-3-100615		EW-03-033116		EW-4-112113	
SDG		680-93954-1		680-99043-1		680-105809-1		680-112094-1&2		680-117551-1		680-123652-1		680-96469-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	520		3100		3600		4400		4100		4100	110
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	600		3100		2700		50	U	50	U	50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	1200		6300		6300		4400		4100		4100	1400
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	5800		11000		14000		9700		15000		9400	4900
SM3500-FeD	FERROUS IRON	ug/L	N	1000	HF	2200	HF								1900
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	350		240									230
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	320		250									160
SW6010	ALUMINUM	mg/L	N	4.2		0.62		1.9		3		0.46		0.82	2.2
SW6010	ANTIMONY	ug/L	N	5.3	U	14	J	15	J	20	U	6.0	J	20	U
SW6010	ARSENIC	mg/L	N	0.025		0.064		0.082		0.056		0.022		0.013	J
SW6010	BARIIUM	mg/L	N	0.22		0.093		0.13		0.22		0.14		0.12	0.33
SW6010	BERYLLIUM	mg/L	N	0.0081		0.0011	J	0.0012	J	0.0063		0.005		0.0033	J
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	8.6		13		19		24		19		18	27
SW6010	CHROMIUM	mg/L	N	0.13		0.22		0.32		0.42		0.34		0.24	0.22
SW6010	COBALT	mg/L	N	0.00095	U	0.003	J	0.0022	J	0.002	J	0.01	U	0.01	U
SW6010	COPPER	mg/L	N	0.0019	U	0.19		0.11		0.31		0.012	J	0.028	0.028
SW6010	IRON	mg/L	N	1		2.3		3.6		21		9.6		8	3.7
SW6010	LEAD	mg/L	N	0.0049	J	0.067		0.054		0.066		0.005	J	0.0067	J
SW6010	MAGNESIUM	mg/L	N	0.12	J	0.17	J	0.29	J	7	B	6.7		6.7	0.21
SW6010	MANGANESE	mg/L	N	0.015		0.0083	J	0.011		0.33		0.42		0.36	0.024
SW6010	NICKEL	mg/L	N	0.017	J	0.062		0.084		0.051		0.034	J	0.02	J
SW6010	POTASSIUM	mg/L	N	1.4		44		67		18		14		10	13
SW6010	RESPIRABLE QUARTZ	ug/L	Y	29000		330000		340000		94000		100000		99000	760000
SW6010	SELENIUM	mg/L	N	0.014	J	0.026		0.0074	J	0.016	J	0.018	J	0.012	J
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	1900		3900		6200		6600		5800		4100	1600
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	460		540		790		500		410			460
SW6010	ZINC	ug/L	N	28		66		78		94	B	8.1	J	15	J
SW7470	MERCURY	ug/L	N	7.2		71		170		40		23		15	160
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N	10	U	10	U								12
SW9038	SULFATE	mg/L	N	100	U	25	U								25
SW9040	pH	S. U.	N	10.5	H	9.82	H	9.67	H	7.24	H	7.93	H	6.99	HF
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N	2400		5900									1600

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- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

				Location ID	EW-4	EW-4	EW-4	EW-4	EW-4	EW-4	EW-4	EW-4	EW-4	EW-5
				Date	03/04/2014	09/30/2014	04/27/2015	04/27/2015	10/07/2015	04/19/2016	11/20/2013			
				Field Sample ID	EW-4-030414	EW-4-093014	EW-4-042715	EW-4-D-042715	EW-4-100715	EW-04-041916	EW-5-112013			
				SDG	680-99155-1	680-105809-1	680-111968-1&2	680-111968-1&2	680-117551-1	680-124423-1	680-96469-1			
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER			
				Sample Purpose	REG	REG	REG	FD	REG	REG	REG			
				Sample Type	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS			
Method	Parameter Name	Units	Filtered											
110.2	pH	S.U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3500		1800	2600		2500		2200		1500	1500
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	62	660		650		50	U	50	4000
SM2320B	ALKALINITY, TOTAL	mg/L	N	3500		1900	3200		3200		2300		1500	5700
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	7300		2900	5400		5700		5800		3000	12000
SM3500-FeD	FEROUS IRON	ug/L	N	13000	HF									3600
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N											
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	170										800
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	140										340
SW6010	ALUMINUM	mg/L	N	1.3		0.59	0.44		0.44		0.77		0.26	1.6
SW6010	ANTIMONY	ug/L	N	20	U	20	20	U	20	U	20	U	20	20
SW6010	ARSENIC	mg/L	N	0.062		0.016	J	0.034		0.03	0.011	J	0.02	0.21
SW6010	BARIIUM	mg/L	N	0.14		0.083		0.11		0.11	0.21		0.046	0.23
SW6010	BERYLLIUM	mg/L	N	0.0053		0.0018	J	0.00084	J	0.00084	J	0.0013	J	0.0082
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
SW6010	CALCIUM	mg/L	N	31		20	25		24		92		38	12
SW6010	CHROMIUM	mg/L	N	0.21		0.12	0.055		0.051		0.054		0.048	0.72
SW6010	COBALT	mg/L	N	0.0017	J	0.01	U	0.01	U	0.01	U	0.01	U	0.004
SW6010	COPPER	mg/L	N	0.01	J	0.0054	J	0.0092	J	0.0081	J	0.0077	J	0.048
SW6010	IRON	mg/L	N	14		1.2	4.2		4		7.6		8.2	4.3
SW6010	LEAD	mg/L	N	0.01		0.01	U	0.009	J	0.0094	J	0.0073	J	0.01
SW6010	MAGNESIUM	mg/L	N	4.6		1.6	4		4.2		9		7.5	0.13
SW6010	MANGANESE	mg/L	N	0.21		0.043	0.1		0.1		0.27		0.38	0.025
SW6010	NICKEL	mg/L	N	0.031	J	0.017	J	0.022	J	0.02	J	0.011	J	0.13
SW6010	POTASSIUM	mg/L	N	12		8.2	15		15		13		8.8	22
SW6010	RESPIRABLE QUARTZ	ug/L	Y	920000		170000	510000		580000		430000		190000	2100000
SW6010	SELENIUM	mg/L	N	0.021	B	0.02	U	0.011	J	0.0087	J	0.02	U	0.028
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
SW6010	SODIUM	mg/L	N	2500		1100	2500		2500		2100		1200	6900
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025
SW6010	VANADIUM	ug/L	N	360		220	110		100		84			1700
SW6010	ZINC	ug/L	N	27		13	J	34		30		31	11	32
SW7470	MERCURY	ug/L	N	20		30		36		37		25		300
SW7470	MERCURY	ug/L	Y											
SW9034	SULFIDE	mg/L	N	10	U									42
SW9038	SULFATE	mg/L	N	160										25
SW9040	pH	S.U.	N	7.47	H	8.57	H	9.35	H	9.32	H	8.08	H	7.28
SW9056	CHLORIDE	mg/L	N											
SW9056	SULFATE	mg/L	N											
SW9251	CHLORIDE	mg/L	N	1500										7200

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- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		EW-5	EW-5	EW-5	EW-5	EW-5	EW-5	EW-6	EW-6								
Date		03/05/2014	09/30/2014	04/25/2015	10/06/2015	03/31/2016	09/05/2013	02/28/2014									
Field Sample ID		EW-5-030514	EW-5-093014	EW-5-042515	EW-5-100615	EW-05-033116	EW-06-090513	EW-6-022814									
SDG		680-99155-1	680-105809-1	680-111968-1&2	680-117551-1	680-123652-1	680-93954-1	680-99043-1									
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER									
Sample Purpose		REG	REG	REG	REG	REG	REG	REG									
Sample Type		GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS									
Method	Parameter Name	Units	Filtered														
110.2	pH	S.U.	N														
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3100	1100	4500	1200	13000	940	13000							
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	6900	96	13000	11000	9000	7100	150							
SM2320B	ALKALINITY, TOTAL	mg/L	N	10000	1200	18000	12000	22000	8400	14000							
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	25000	3100	44000	43000	41000	34000	42000							
SM3500-FeD	FERROUS IRON	ug/L	N	13000	HF				2700	HF	1700	HF					
SM4500S2-E	SULFIDE	mg/L	N														
SM4500S2-F	SULFIDE	mg/L	N														
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N														
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	750					390		260						
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	750					300		270						
SW6010	ALUMINUM	mg/L	N	0.56	8.1	3.3	0.27	2	U	0.54	J	0.2	U				
SW6010	ANTIMONY	ug/L	N	20	U	20	U	53	J	9.5	J	200	U	27	U		
SW6010	ARSENIC	mg/L	N	0.73	0.037	1.1	0.23	0.13	J	0.5		0.057					
SW6010	BARIIUM	mg/L	N	0.087	0.031	0.1	0.073	0.056	J	0.057		0.096					
SW6010	BERYLLIUM	mg/L	N	0.0029	J	0.00085	J	0.0032	J	0.0021	J	0.0018	J	0.0018	J		
SW6010	CADMIUM	mg/L	N	0.002	J	0.005	U	0.05	U	0.0022	J	0.05	U	0.01	U	0.0022	J
SW6010	CALCIUM	mg/L	N	15	30	18	18	12		5.1		31					
SW6010	CHROMIUM	mg/L	N	1.1	0.088	1.6	0.61	0.56		0.38		0.26					
SW6010	COBALT	mg/L	N	0.006	J	0.01	U	0.1	U	0.0026	J	0.1	U	0.0048	U	0.0013	J
SW6010	COPPER	mg/L	N	0.064	0.55	0.071	J	0.032		0.2	U	0.053	J	0.014	J		
SW6010	IRON	mg/L	N	6.1	2.9	8.2	2.6	0.88		5.9		1.3					
SW6010	LEAD	mg/L	N	0.01	U	0.019	U	0.1	U	0.01	U	0.032	J	0.01	U		
SW6010	MAGNESIUM	mg/L	N	0.15	J	0.74		0.45	J	0.44	J	4.5	J	0.1	J	20	
SW6010	MANGANESE	mg/L	N	0.0066	J	0.04		0.1	U	0.0074	J	0.1	U	0.013	J	0.048	
SW6010	NICKEL	mg/L	N	0.23	0.016	J	0.35	J	0.094		0.054	J	0.15	J	0.043		
SW6010	POTASSIUM	mg/L	N	25	14	33	36	20		18		48					
SW6010	RESPIRABLE QUARTZ	ug/L	Y	2400000	250000	7100000	2000000	250000		6300000		53000					
SW6010	SELENIUM	mg/L	N	0.063	B	0.0069	J	0.11	J	0.039		0.2	U	0.1		0.029	
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.1	U	0.01	U	0.045	U	0.01	U		
SW6010	SODIUM	mg/L	N	13000	870	22000	17000	18000		11000		13000					
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.25	U	0.025	U	0.25	U	0.044	U	0.025	U
SW6010	VANADIUM	ug/L	N	3500	180	5000	2200	1400		590							
SW6010	ZINC	ug/L	N	52	28	200	U	18	J	200	U	44	U	15	J		
SW7470	MERCURY	ug/L	N	180	21	75	350	140		430		180					
SW7470	MERCURY	ug/L	Y														
SW9034	SULFIDE	mg/L	N	36						10	U	20	U				
SW9038	SULFATE	mg/L	N	130						25	U	500	U				
SW9040	pH	S.U.	N	10.5	H	9.04	H	10.8	H	11.0	H	9.46	HF	11.5	H	7.63	H
SW9056	CHLORIDE	mg/L	N														
SW9056	SULFATE	mg/L	N														
SW9251	CHLORIDE	mg/L	N	13000						12000		13000					

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				EW-8		EW-8		EW-9		EW-9		EW-9	
Date				10/07/2015		03/30/2016		11/21/2013		03/04/2014		09/30/2014	
Field Sample ID				EW-8-DUP-100715		EW-08-033016		EW-9-112113		EW-9-030414		EW-9-093014	
SDG				680-117666-2		680-123536-1		680-96469-1		680-99155-1		680-105809-1	
Matrix				WATER		WATER		WATER		WATER		WATER	
Sample Purpose				FD		REG		REG		REG		REG	
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N		4300		4000		300		2900		3300
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	U	50	U	50	U	2400		25	U	50
SM2320B	ALKALINITY, TOTAL	mg/L	N		4300		4000		2700		2900		3300
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N		8400		6000		8000		6300		7300
SM3500-FeD	FERROUS IRON	ug/L	N						2600	HF	5700	HF	
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y						400		200		
SM5310B	TOTAL ORGANIC CARBON	mg/L	N						310		190		
SW6010	ALUMINUM	mg/L	N		0.56		0.76		0.36		0.19	J	0.35
SW6010	ANTIMONY	ug/L	N	U	20	U	20	U	20	U	20	U	20
SW6010	ARSENIC	mg/L	N	J	0.0079	J	0.018	J	0.059		0.018	J	0.0076
SW6010	BARIIUM	mg/L	N		0.051		0.056		0.15		0.13		0.097
SW6010	BERYLLIUM	mg/L	N		0.0067		0.0072		0.017		0.011		0.013
SW6010	CADMIUM	mg/L	N	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
SW6010	CALCIUM	mg/L	N		46		62		19		96		48
SW6010	CHROMIUM	mg/L	N		0.16		0.18		0.27		0.17		0.2
SW6010	COBALT	mg/L	N	U	0.01	U	0.01	U	0.002	J	0.01	U	0.01
SW6010	COPPER	mg/L	N	J	0.0026	J	0.0022	J	0.014	J	0.0037	J	0.0044
SW6010	IRON	mg/L	N		7.3		12		1.7		5.8		2.1
SW6010	LEAD	mg/L	N	U	0.01	U	0.01	U	0.011		0.01	U	0.01
SW6010	MAGNESIUM	mg/L	N		29		22		0.041	J	19		12
SW6010	MANGANESE	mg/L	N		0.36		0.45		0.046		1.3		0.68
SW6010	NICKEL	mg/L	N	J	0.0061	J	0.0063	J	0.046		0.016	J	0.015
SW6010	POTASSIUM	mg/L	N		16		14		4.6		14		12
SW6010	RESPIRABLE QUARTZ	ug/L	Y		100000		110000		420000		100000		110000
SW6010	SELENIUM	mg/L	N	J	0.014	J	0.012	J	0.012	J	0.015	J,B	0.02
SW6010	SILVER	mg/L	N	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
SW6010	SODIUM	mg/L	N		3600		2600		4100		2400		2800
SW6010	THALLIUM	mg/L	N	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025
SW6010	VANADIUM	ug/L	N		81				590		210		200
SW6010	ZINC	ug/L	N	U	20	U	20	U	15	J	20	U	20
SW7470	MERCURY	ug/L	N		1.1		1.7		120		4.6		21
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N						31		10	U	
SW9038	SULFATE	mg/L	N						29		27		
SW9040	pH	S. U.	N	H	7.71	H	6.94	HF	10.9	H	6.96	H	7.63
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N						4800		2300		

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

Qualifiers:

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				EW-9		EW-9		EW-10		EW-10		EW-10		EW-11		EW-11	
Date				10/07/2015		03/30/2016		11/21/2013		03/03/2014		09/30/2014		10/03/2012		11/21/2013	
Field Sample ID				EW-9-100715		EW-09-033016		EW-10-112113		EW-10-030314		EW-10-093014		EW-11-100312		EW-11-112113	
SDG				680-117666-2		680-123536-1		680-96469-1		680-99155-1		680-105809-1		680-83469-1		680-96469-1	
Matrix				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose				REG		REG		REG		REG		REG		REG		REG	
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered														
110.2	pH	S. U.	N														
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3600		3800		550	H	2600		2600		650	H	4800	H
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	2000	H	50	U	50	U	1800	H	390	H
SM2320B	ALKALINITY, TOTAL	mg/L	N	3600		3800		2800	H	2700		2600		2700	H	5200	H
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	8000		6000		9700		7800		5200		20000		17000	
SM3500-FeD	FERROUS IRON	ug/L	N					1400	HF	2800	HF			2300		2600	HF
SM4500S2-E	SULFIDE	mg/L	N														
SM4500S2-F	SULFIDE	mg/L	N											17			
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N														
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y					310		210				1700		260	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N					250		200				280		150	
SW6010	ALUMINUM	mg/L	N	0.73		0.55		0.26		1.1		1.1		0.48		0.13	J
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	20	U	20	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.015	J	0.02	U	0.042		0.036		0.03		0.14		0.051	
SW6010	BARIUM	mg/L	N	0.12		0.069		0.13		0.074		0.065		0.052		0.13	
SW6010	BERYLLIUM	mg/L	N	0.011		0.007		0.01		0.015		0.015		0.0043		0.0029	J
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	51		38		12		35		32		17		19	
SW6010	CHROMIUM	mg/L	N	0.23		0.15		0.18		0.17		0.16		0.45		0.48	
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.0035	J	0.0026	J
SW6010	COPPER	mg/L	N	0.0071	J	0.002	J	0.013	J	0.019	J	0.015	J	0.022		0.02	
SW6010	IRON	mg/L	N	8.4		6.8		1.2		2.8		1.3		2.6		3.1	
SW6010	LEAD	mg/L	N	0.0058	J	0.01	U	0.011		0.014		0.011		0.01		0.01	U
SW6010	MAGNESIUM	mg/L	N	17		14		0.026	J	4.3		4.1		0.1	J	13	
SW6010	MANGANESE	mg/L	N	1.9		0.85		0.018		0.26		0.24		0.044		0.26	
SW6010	NICKEL	mg/L	N	0.016	J	0.005	J	0.038	J	0.023	J	0.021	J	0.06		0.051	
SW6010	POTASSIUM	mg/L	N	13		9.1		19		14		14		9.8		20	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	140000		140000		880000		120000		150000		610000		140000	
SW6010	SELENIUM	mg/L	N	0.013	J	0.02	U	0.012	J	0.017	J,B	0.02	U	0.027		0.023	
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	3500		2300		5600		3100		3000		7900		9900	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	190				560		330		320		1400		960	
SW6010	ZINC	ug/L	N	13	J	20	U	12	J	24		19	J	43		11	J
SW7470	MERCURY	ug/L	N	16		4.7		68		35		32		64		48	
SW7470	MERCURY	ug/L	Y														
SW9034	SULFIDE	mg/L	N					28		10	U					10	U
SW9038	SULFATE	mg/L	N					25	U	120						500	U
SW9040	pH	S. U.	N	7.67	H	6.87	HF	11.1	H	7.57	H	7.70	H	11.1	H	8.62	H
SW9056	CHLORIDE	mg/L	N											9000			
SW9056	SULFATE	mg/L	N											420			
SW9251	CHLORIDE	mg/L	N					7000		3300						12000	

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		EW-11		EW-11		EW-11		EW-11		EW-11		EW-11		MW-105A	
Date		12/12/2013		02/28/2014		02/28/2014		04/25/2015		10/08/2015		03/29/2016		09/04/2013	
Field Sample ID		EW 11-121213		EW-11-022814		EW-11DUP-022814		EW-11-042515		EW-11-100815		EW-11-032916		MW-105A-090413	
SDG		680-97103-1		680-99043-1		680-99043-1		680-111968-1&2		680-117666-2		680-123536-1		680-93870-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		FD		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N		4400		4400		3900		3300		2900		130
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N		25	U	25	U	50	U	50	U	25	U	5.0
SM2320B	ALKALINITY, TOTAL	mg/L	N		4500		4400		4000		3300		2900		130
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N		26000		24000		14000		11000		11000		370
SM3500-FeD	FERROUS IRON	ug/L	N		7500	HF	7000	HF							3600
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y		160		160								34
SM5310B	TOTAL ORGANIC CARBON	mg/L	N		170		130								33
SW6010	ALUMINUM	mg/L	N		0.2	U	0.2	U	0.2	U	0.41	J	0.38		0.1
SW6010	ANTIMONY	ug/L	N		5.3	J	20	U	20	U	20	U	20	U	5.3
SW6010	ARSENIC	mg/L	N		0.02	U	0.0054	J	0.02	U	0.02	U	0.02	U	0.0046
SW6010	BARIUM	mg/L	N		0.15		0.16		0.17		0.13		0.12		0.014
SW6010	BERYLLIUM	mg/L	N		0.0018	J	0.0018	J	0.0015	J	0.0014	J	0.0016	J	0.0002
SW6010	CADMIUM	mg/L	N		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.002
SW6010	CALCIUM	mg/L	N		30		31		33		26		23		74
SW6010	CHROMIUM	mg/L	N		0.16		0.2		0.12		0.1		0.11		0.0012
SW6010	COBALT	mg/L	N		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.00095
SW6010	COPPER	mg/L	N		0.0021	J	0.0025	J	0.02	U	0.02	U	0.0021	J	0.0019
SW6010	IRON	mg/L	N		7.3		7.6		8.1		6.3		5		3.8
SW6010	LEAD	mg/L	N		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.004
SW6010	MAGNESIUM	mg/L	N		21		21		21		16		12		14
SW6010	MANGANESE	mg/L	N		0.28		0.28		0.18		0.15		0.12		0.27
SW6010	NICKEL	mg/L	N		0.0071	J	0.0073	J	0.0072	J	0.0053	J	0.0041	J	0.0023
SW6010	POTASSIUM	mg/L	N		22		22		13		6.9		8		6.1
SW6010	RESPIRABLE QUARTZ	ug/L	Y		72000		72000		110000		130000		130000		2800
SW6010	SELENIUM	mg/L	N		0.019	J	0.03		0.016	J	0.016	J	0.02	U	0.0064
SW6010	SILVER	mg/L	N		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.00089
SW6010	SODIUM	mg/L	N		8400		8600		5700		4900		4000		7.7
SW6010	THALLIUM	mg/L	N		0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.0088
SW6010	VANADIUM	ug/L	N		140		160		89		74				2.4
SW6010	ZINC	ug/L	N		20	U	20	U	20	U	20	U	20	U	8.7
SW7470	MERCURY	ug/L	N	23	3.0		3.9		0.95		0.68	J	0.72		0.091
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N		10	U	10	U							10
SW9038	SULFATE	mg/L	N		5.0	U	5.0	U							160
SW9040	pH	S. U.	N		6.80	H	6.83	H	6.70	H	7.63	H	6.66	HF	6.03
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N		10000		9700								7.5

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-105A		MW-1A		MW-1A		MW-1A		MW-1A		MW-1B		
Date		03/05/2014		10/02/2012		11/28/2012		09/06/2013		02/24/2014		10/02/2012		
Field Sample ID		MW-105A-030514		MW-1A-100212		MW-1A-112812		MW-1A-090613		MW-1A-022414		MW-1B-100212		
SDG		680-99155-1		680-83469-1		680-85180-1&2		680-93954-1		680-98941-1		680-83414-1		
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		
Sample Purpose		REG		REG		REG		REG		REG		REG		
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		
Method	Parameter Name	Units	Filtered											
110.2	pH	S. U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	130		820	H	1500	H	1500		1600	770	H
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	5.0	U	100	U,H	100	U,H	10	U	50	100	U,H
SM2320B	ALKALINITY, TOTAL	mg/L	N	130		820	H	1500	H	1500		1600	780	H
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	340		5000		8200		8900		9500	8500	
SM3500-FeD	FERROUS IRON	ug/L	N	950	HF	1200		370		48	J,HF	77	5400	J,HF
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N			7.3		10	U					
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										1.0	U
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	26		230		160		150		130	200	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	25		350		140		160		150	190	
SW6010	ALUMINUM	mg/L	N	0.2	U	20		6		2.1		3	14	
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	5.3	U	5.3	20	U
SW6010	ARSENIC	mg/L	N	0.02	U	0.012	J	0.02	U	0.0046	U	0.0067	0.012	J
SW6010	BARIUM	mg/L	N	0.015		0.072		0.034		0.025		0.041	0.061	
SW6010	BERYLLIUM	mg/L	N	0.004	U	0.011		0.0018	J	0.001	J	0.0011	0.01	J
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.002	U	0.005	0.005	U
SW6010	CALCIUM	mg/L	N	72		10		14		25		31	14	
SW6010	CHROMIUM	mg/L	N	0.01	U	0.078		0.03		0.018		0.026	0.093	
SW6010	COBALT	mg/L	N	0.01	U	0.004	J	0.0013	J	0.00095	U	0.01	0.0011	J
SW6010	COPPER	mg/L	N	0.02	U	0.0035	J	0.02	U	0.0019	U	0.02	0.0041	J
SW6010	IRON	mg/L	N	0.88		2.9		0.69		0.083	J	0.055	8.5	J
SW6010	LEAD	mg/L	N	0.01	U	0.024		0.01	U	0.004	U	0.01	0.016	U
SW6010	MAGNESIUM	mg/L	N	13		2.5		12		19		27	4.2	
SW6010	MANGANESE	mg/L	N	0.23		0.039		0.034		0.089		0.14	0.17	
SW6010	NICKEL	mg/L	N	0.04	U	0.01	J	0.0054	J	0.0032	J	0.0051	0.0092	J
SW6010	POTASSIUM	mg/L	N	5.5		6.4		25		37		46	2.4	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	1900		44000		40000		22000		17000	57000	
SW6010	SELENIUM	mg/L	N	0.02	U	0.012	J	0.02		0.018	J	0.029	0.0089	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.00089	U	0.01	0.01	U
SW6010	SODIUM	mg/L	N	13		1500		1600		3400		3700	1300	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.0088	U	0.025	0.025	U
SW6010	VANADIUM	ug/L	N	10	U	120		81		79		96	120	
SW6010	ZINC	ug/L	N	20		51		15	J	8.7	U	20	28	U
SW7470	MERCURY	ug/L	N	0.20	U	8.1		1.1		0.41		0.46	5.0	
SW7470	MERCURY	ug/L	Y											
SW9034	SULFIDE	mg/L	N	10	U					10	U	10		U
SW9038	SULFATE	mg/L	N	150						10	U	5.0		U
SW9040	pH	S. U.	N	6.53	H	8.42	H	6.76	H	6.83		6.96	8.93	H
SW9056	CHLORIDE	mg/L	N			1800		4000					1600	
SW9056	SULFATE	mg/L	N			100	U	100	U				100	U
SW9251	CHLORIDE	mg/L	N	9.8						4700		5100		

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID				MW-1B		MW-1B		MW-1B		MW-1C		MW-1C		MW-1C	
Date				11/27/2012		08/30/2013		02/24/2014		10/02/2012		11/26/2012		02/04/2013	
Field Sample ID				MW-1B-112712		MW-1B-083013		MW-1B-022414		MW-1C-100212		MW-1C-112612		MW-1C-020413	
SDG				680-85180-1&2		680-93799-1		680-98941-1		680-83414-1		680-85137-1&2		680-87157-1	
Matrix				WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose				REG		REG		REG		REG		REG		REG	
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1400	H	1300		1200		790	H	7800	H	600	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	100	U,H	50	U	50	U	4300	H	120	H	5.0	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	1400	H	1300		1200		5700	H	7900	H	600	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	5600		6200		4200		48000		48000		42000	
SM3500-FeD	FERROUS IRON	ug/L	N	7900		4800	HF	3600	HF	3300		18000		7300	HF
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N	10	U							22		22	
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N							52					
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	170		170		200		2300		390	B	290	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	160		180		150		1900		430		270	
SW6010	ALUMINUM	mg/L	N	4.6		3.5		5.1		0.28		0.2	U	0.1	U
SW6010	ANTIMONY	ug/L	N	20	U	5.3	U	20	U	20	U	20	U	5.3	U
SW6010	ARSENIC	mg/L	N	0.012	J	0.011	J	0.0056	J	0.32		0.12		0.023	
SW6010	BARIUM	mg/L	N	0.026		0.027		0.031		0.021		0.39		0.23	
SW6010	BERYLLIUM	mg/L	N	0.015		0.014		0.016		0.0023	J	0.0027	J	0.0033	J
SW6010	CADMIUM	mg/L	N	0.005	U	0.002	U	0.005	U	0.0024	J	0.0037	J	0.0025	J
SW6010	CALCIUM	mg/L	N	8.2		9.8		9		1.4		65		29	
SW6010	CHROMIUM	mg/L	N	0.13		0.098		0.086		0.5		0.32		0.42	
SW6010	COBALT	mg/L	N	0.01	U	0.00095	U	0.01	U	0.0031	J	0.01	U	0.00095	U
SW6010	COPPER	mg/L	N	0.0022	J	0.0047	J	0.0019	J	0.031		0.0049	J	0.012	J
SW6010	IRON	mg/L	N	7.5		4.8		4.6		2.1		17		6.8	
SW6010	LEAD	mg/L	N	0.012		0.011		0.019		0.01	U	0.063		0.004	U
SW6010	MAGNESIUM	mg/L	N	4.9		7.7		6.7		0.13	J	19		11	
SW6010	MANGANESE	mg/L	N	0.11		0.14		0.11		0.0021	J	0.24		0.094	
SW6010	NICKEL	mg/L	N	0.0047	J	0.0052	J	0.0057	J	0.09		0.016	J	0.033	J
SW6010	POTASSIUM	mg/L	N	2.1		2.6		2.1		14		48		34	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	91000		66000		57000		2000000		86000		78000	
SW6010	SELENIUM	mg/L	N	0.0099	J	0.012	J	0.011	J	0.042		0.032		0.032	
SW6010	SILVER	mg/L	N	0.01	U	0.0013	J	0.01	U	0.01	U	0.01	U	0.00089	U
SW6010	SODIUM	mg/L	N	690		1500		1300		20000		8700		14000	
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U	0.025	U	0.025	U	0.025	U	0.0088	U
SW6010	VANADIUM	ug/L	N	140		110		120		2200		370		680	
SW6010	ZINC	ug/L	N	49		8.7	U	9.9	J	16	J	9.5	J	15	J
SW7470	MERCURY	ug/L	N	3.5		3.2		4.3		110		21		44	
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N			31		40	U						
SW9038	SULFATE	mg/L	N			31		29							
SW9040	pH	S. U.	N	6.46	H	6.63		6.59	H	11.2	H	6.97	H	7.19	H
SW9056	CHLORIDE	mg/L	N	1200						19000		25000		21000	
SW9056	SULFATE	mg/L	N	100	U					1300		1400		1400	
SW9251	CHLORIDE	mg/L	N			1600		1500							

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

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- J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-1C		MW-1C		MW-1C		MW-1C		MW-1C		MW-1C				
Date		02/04/2013		05/15/2013		08/30/2013		02/24/2014		02/24/2014		09/25/2014		04/21/2015		
Field Sample ID		MW-1C2-020413		MW-1C_051513		MW-1C-083013		MW 1C (Duplicate)-022414		MW-1C-022414		MW-1C-092514		MW-1C-042115		
SDG		680-87157-1		680-90380-1		680-93799-1		680-98941-1		680-98941-1		680-105703-1		680-111819-28		
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER		
Sample Purpose		FD		REG		REG		FD		REG		REG		REG		
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		
Method	Parameter Name	Units	Filtered													
110.2	pH	S. U.	N													
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	610		6500		6300		7400		7300		7000		6000
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	5.0	U	410		600		50	U	50	U	50	U	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	610		6900		6900		7400		7300		7100		6000
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	42000		43000		43000		28000		17000		24000		25000
SM3500-FeD	FERROUS IRON	ug/L	N	7600	HF	1400	HF	1800	HF	6800	HF	6700	HF			
SM4500S2-E	SULFIDE	mg/L	N			24										
SM4500S2-F	SULFIDE	mg/L	N	25												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N													
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	290		280		300		270		280				
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	280		340		1100		290		270				
SW6010	ALUMINUM	mg/L	N	0.1	U	1	U	0.5	U	0.14	J	0.13	J	0.2	U	0.4
SW6010	ANTIMONY	ug/L	N	5.3	U	53	U	27	U	20	U	20	U	20	U	40
SW6010	ARSENIC	mg/L	N	0.019	J	0.046	U	0.023	U	0.02	U	0.1	U	0.02	U	0.04
SW6010	BARIUM	mg/L	N	0.23		0.078	J	0.067		0.25		0.25		0.22		0.25
SW6010	BERYLLIUM	mg/L	N	0.0033	J	0.0032	J	0.0047	J	0.0031	J	0.003	J	0.002	J	0.0019
SW6010	CADMIUM	mg/L	N	0.0025	J	0.02	U	0.01	U	0.0034	J	0.0032	J	0.0024	J	0.01
SW6010	CALCIUM	mg/L	N	29		8.7		6		33		33		35		48
SW6010	CHROMIUM	mg/L	N	0.41		0.33		0.53		0.26		0.27		0.13		0.13
SW6010	COBALT	mg/L	N	0.00095	U	0.0095	U	0.0048	U	0.01	U	0.01	U	0.01	U	0.02
SW6010	COPPER	mg/L	N	0.013	J	0.019	U	0.016	J	0.0092	J	0.0088	J	0.0037	J	0.04
SW6010	IRON	mg/L	N	7		1.1		1.3		7.7		7.8		5.9		11
SW6010	LEAD	mg/L	N	0.004	U	0.04	U	0.02	U	0.01	U	0.01	U	0.01	U	0.02
SW6010	MAGNESIUM	mg/L	N	11		4.4	J	2	J	15		15		20		23
SW6010	MANGANESE	mg/L	N	0.095		0.02	J	0.014	J	0.12		0.1		0.1		0.16
SW6010	NICKEL	mg/L	N	0.031	J	0.027	J	0.045	J	0.013	J	0.01	J	0.006	J	0.0073
SW6010	POTASSIUM	mg/L	N	32		25		26		42		42		28		37
SW6010	RESPIRABLE QUARTZ	ug/L	Y	78000		57000		75000		58000		53000		91000		93000
SW6010	SELENIUM	mg/L	N	0.036		0.068	J	0.073	J	0.02	U	0.1	U	0.026		0.016
SW6010	SILVER	mg/L	N	0.00089	U	0.0089	U	0.0045	U	0.01	U	0.01	U	0.01	U	0.02
SW6010	SODIUM	mg/L	N	14000		15000		15000		13000		13000		24		9900
SW6010	THALLIUM	mg/L	N	0.0088	U	0.088	U	0.044	U	0.025	U	0.025	U	0.025	U	0.05
SW6010	VANADIUM	ug/L	N	670		780		1000		360		360		160		130
SW6010	ZINC	ug/L	N	16	J	87	U	44	U	20	U	20	U	20	U	40
SW7470	MERCURY	ug/L	N	42		53		43		10		11		3.7		2.9
SW7470	MERCURY	ug/L	Y													
SW9034	SULFIDE	mg/L	N					35		40	U	40	U			
SW9038	SULFATE	mg/L	N					500	U	1100		1100				
SW9040	pH	S. U.	N	7.19	H	8.60	H	8.62		7.04	H	7.00	H	6.98	H	6.95
SW9056	CHLORIDE	mg/L	N	22000		19000										
SW9056	SULFATE	mg/L	N	1400		1200										
SW9251	CHLORIDE	mg/L	N					17000		15000		15000				

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				MW-1C		MW-1C		MW-2A		MW-2A		MW-2A		
Date				10/07/2015		03/29/2016		10/03/2012		11/28/2012		09/06/2013		
Field Sample ID				MW-1C-100715		MW-1C-032916		MW-2A-100312		MW-2A-112812		MW-2A-090613		
SDG				680-117551-1		680-123536-1		680-83469-1		680-85180-1&2		680-93954-1		
Matrix				WATER		WATER		WATER		WATER		WATER		
Sample Purpose				REG		REG		REG		REG		REG		
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		
Method	Parameter Name	Units	Filtered											
110.2	pH	S. U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N		4600		4500		830	H	1700	H	1400	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	U	50	U	25	U	100	U,H	100	U,H	50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N		4600		4500		840	H	1700	H	1500	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N		24000		18000		5200		5100		5200	
SM3500-FeD	FERROUS IRON	ug/L	N						2200		1200		630	HF
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N						5.9		14			
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N											
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y						280		200		210	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N						250		190		240	
SW6010	ALUMINUM	mg/L	N	U	0.042	J	0.046	J	47		23		13	
SW6010	ANTIMONY	ug/L	N	U	20	U	20	U	20	U	20	U	5.3	U
SW6010	ARSENIC	mg/L	N	U	0.02	U	0.02	U	0.021		0.0095	J	0.0046	U
SW6010	BARIUM	mg/L	N		0.19		0.13		0.2		0.14		0.086	
SW6010	BERYLLIUM	mg/L	N	J	0.0015	J	0.0012	J	0.01		0.0062		0.0032	J
SW6010	CADMIUM	mg/L	N	U	0.0014	J	0.0013	J	0.005	U	0.005	U	0.002	U
SW6010	CALCIUM	mg/L	N		26		26		20		13		18	
SW6010	CHROMIUM	mg/L	N		0.087		0.073		0.14		0.089		0.044	
SW6010	COBALT	mg/L	N	U	0.01	U	0.01	U	0.006	J	0.0022	J	0.00095	U
SW6010	COPPER	mg/L	N	U	0.0034	J	0.02	U	0.0053	J	0.0033	J	0.0019	U
SW6010	IRON	mg/L	N		11		7.4		6.7		1.9		0.34	
SW6010	LEAD	mg/L	N	U	0.01	U	0.01	U	0.032		0.017		0.004	U
SW6010	MAGNESIUM	mg/L	N		18		18		3.4		1.4		3.5	
SW6010	MANGANESE	mg/L	N		0.14		0.097		0.3		0.14		0.32	
SW6010	NICKEL	mg/L	N	J	0.0047	J	0.04	U	0.016	J	0.0079	J	0.0041	J
SW6010	POTASSIUM	mg/L	N		27		25		7.8		8.4		15	
SW6010	RESPIRABLE QUARTZ	ug/L	Y		110000		100000		80000		50000		21000	
SW6010	SELENIUM	mg/L	N	J	0.026		0.016	J	0.013	J	0.017	J	0.0064	U
SW6010	SILVER	mg/L	N	U	0.01	U	0.01	U	0.01	U	0.01	U	0.00089	U
SW6010	SODIUM	mg/L	N		11000		7900		1700		650		1900	
SW6010	THALLIUM	mg/L	N	U	0.025	U	0.025	U	0.025	U	0.025	U	0.0088	U
SW6010	VANADIUM	ug/L	N		84				170		110		93	
SW6010	ZINC	ug/L	N	U	20	U	20	U	48		18	J	8.7	U
SW7470	MERCURY	ug/L	N		1.2		1.2		11		4.5		3.3	
SW7470	MERCURY	ug/L	Y											
SW9034	SULFIDE	mg/L	N										10	U
SW9038	SULFATE	mg/L	N										26	
SW9040	pH	S. U.	N	H	7.93	H	6.94	HF	8.68	H	7.19		7.61	
SW9056	CHLORIDE	mg/L	N						1800		1500			
SW9056	SULFATE	mg/L	N						100	U	100	U		
SW9251	CHLORIDE	mg/L	N										2200	

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				MW-2A		MW-2B		MW-2B		MW-2B		MW-2B		MW-2C	
Date				03/05/2014		10/03/2012		11/28/2012		08/30/2013		03/04/2014		10/03/2012	
Field Sample ID				MW-2A-030514		MW-2B-100312		MW-2B-112812		MW-2B-083013		MW-2B-030414		MW-2C-100312	
SDG				680-99155-1		680-83469-1		680-85180-1&2		680-93799-1		680-99155-1		680-83469-1	
Matrix				WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose				REG		REG		REG		REG		REG		REG	
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1700		770	H	1100	H	1400		1300		810	H
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	25	U	100	U,H	100	U,H	25	U	25	U	4000	H
SM2320B	ALKALINITY, TOTAL	mg/L	N	1700		780	H	1100	H	1400		1300		5300	H
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	4700		4300		4800		5500		3500		38000	
SM3500-FeD	FERROUS IRON	ug/L	N	210	HF	1800		6200		3200	HF	3900	HF	1700	
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N			14		19						28	
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	210		280		210		200		230		1600	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	180		280		200		200		200		1600	
SW6010	ALUMINUM	mg/L	N	9.3		4.7		6		2.8		3.7		0.47	
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	5.3	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.0091	J	0.012	J	0.015	J	0.011	J	0.017	J	0.26	
SW6010	BARIUM	mg/L	N	0.069		0.068		0.04		0.048		0.046		0.022	
SW6010	BERYLLIUM	mg/L	N	0.0026	J	0.011		0.013		0.0093		0.011		0.0022	J
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.002	U	0.005	U	0.0024	J
SW6010	CALCIUM	mg/L	N	14		14		10		12		10		2.5	
SW6010	CHROMIUM	mg/L	N	0.058		0.095		0.11		0.08		0.098		0.37	
SW6010	COBALT	mg/L	N	0.0013	J	0.01	U	0.01	U	0.00095	U	0.01	U	0.0019	J
SW6010	COPPER	mg/L	N	0.02	U	0.0031	J	0.0026	J	0.0019	U	0.0029	J	0.022	
SW6010	IRON	mg/L	N	0.42		1.8		6.2		2.8		3.7		1.8	
SW6010	LEAD	mg/L	N	0.01	U	0.017		0.013		0.011		0.015		0.01	U
SW6010	MAGNESIUM	mg/L	N	3.4		0.81		3.1		3.8		3.2		0.12	J
SW6010	MANGANESE	mg/L	N	0.21		0.027		0.081		0.074		0.05		0.0028	J
SW6010	NICKEL	mg/L	N	0.0062	J	0.0097	J	0.0077	J	0.0053	J	0.0068	J	0.069	
SW6010	POTASSIUM	mg/L	N	11		1.3		2		3		1.9		14	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	16000		30000		83000		42000		46000		1900000	
SW6010	SELENIUM	mg/L	N	0.02	B	0.01	J	0.013	J	0.011	J	0.013	J	0.035	
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.0015	J	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	1900		1400		660		1500		1300		13000	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.0088	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	89		150		160		120		140		1700	
SW6010	ZINC	ug/L	N	20	U	9.5	J	14	J	8.7	U	20	U	16	J
SW7470	MERCURY	ug/L	N	0.63		4.8		4.5		2.7		0.92		110	
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N	10	U					15		10	U		
SW9038	SULFATE	mg/L	N	16						30		100	U		
SW9040	pH	S. U.	N	7.59	H	9.16	H	6.58	H	7.01		6.73	H	11.3	H
SW9056	CHLORIDE	mg/L	N			1400		1400						17000	
SW9056	SULFATE	mg/L	N			100	U	100	U					1000	
SW9251	CHLORIDE	mg/L	N	1900						1500		1300			

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-2C		MW-2C		MW-2C		MW-2C		MW-2C		MW-2C	
Date		11/27/2012		11/27/2012		11/27/2012		02/05/2013		05/15/2013		08/27/2013	
Field Sample ID		MW-2C-MID-112712		MW-2C-MID2-112712		MW-2C-TOP-112712		MW-2C-MID-020513		MW-2C_051513		MW-2C-082713	
SDG		680-85137-1&2		680-85137-1&2		680-85180-1&2		680-87157-1		680-90380-1		680-93690-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		FD		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	5600	H	5700	H	6000	H	450		4300	3800
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	110	H	100	U,H	100	U,H	35		410	510
SM2320B	ALKALINITY, TOTAL	mg/L	N	5700	H	5800	H	6000	H	490		4800	4300
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	35000		33000		32000		33000		30000	26000
SM3500-FeD	FERROUS IRON	ug/L	N	5200		6000		6900		1100	HF	1100	HF
SM4500S2-E	SULFIDE	mg/L	N									27	
SM4500S2-F	SULFIDE	mg/L	N	20		20		22		21			
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	410	B	440	B	300		320		760	250
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	480		470		270		290		910	340
SW6010	ALUMINUM	mg/L	N	0.2	U	0.2	U	0.2	U	0.1	U	1	0.1
SW6010	ANTIMONY	ug/L	N	14	J	19	J	9.1	J	37		53	89
SW6010	ARSENIC	mg/L	N	0.039		0.044		0.026		0.034		0.046	0.028
SW6010	BARIUM	mg/L	N	0.11		0.13		0.17		0.089		0.092	0.079
SW6010	BERYLLIUM	mg/L	N	0.0021	J	0.0024	J	0.003	J	0.002	J	0.0026	0.0031
SW6010	CADMIUM	mg/L	N	0.005	U	0.0021	J	0.0025	J	0.002	U	0.02	0.002
SW6010	CALCIUM	mg/L	N	12		14		19		11		12	12
SW6010	CHROMIUM	mg/L	N	0.25		0.32		0.3		0.29		0.18	0.34
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.01	U	0.00095	U	0.0095	0.0011
SW6010	COPPER	mg/L	N	0.0089	J	0.011	J	0.0087	J	0.0086	J	0.019	0.014
SW6010	IRON	mg/L	N	6.1		7.2		8.4		0.92		0.64	0.83
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.01	U	0.004	U	0.04	0.004
SW6010	MAGNESIUM	mg/L	N	7		8.3		12		5.6		6.2	3.3
SW6010	MANGANESE	mg/L	N	0.18		0.21		0.24		0.067		0.044	0.038
SW6010	NICKEL	mg/L	N	0.027	J	0.033	J	0.027	J	0.033	J	0.023	0.044
SW6010	POTASSIUM	mg/L	N	24		28		30		21		12	18
SW6010	RESPIRABLE QUARTZ	ug/L	Y	180000		190000		110000		130000		75000	130000
SW6010	SELENIUM	mg/L	N	0.023		0.031		0.032		0.031		0.064	0.021
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.00089	U	0.0089	0.027
SW6010	SODIUM	mg/L	N	5600		6200		6300		13000		11000	10000
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.0088	U	0.088	0.0088
SW6010	VANADIUM	ug/L	N	630		760		620		730		690	870
SW6010	ZINC	ug/L	N	11	J	11	J	12	J	24		87	17
SW7470	MERCURY	ug/L	N	74		55		33		41		46	49
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N										13
SW9038	SULFATE	mg/L	N										
SW9040	pH	S. U.	N	7.81		7.75		7.20	H	8.58		8.76	8.87
SW9056	CHLORIDE	mg/L	N	18000		17000		16000		19000		14000	13000
SW9056	SULFATE	mg/L	N	930		940		920		920		720	750
SW9251	CHLORIDE	mg/L	N										

Analytical Laboratory: TestAmerica Savannah

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-2C	MW-2C	MW-2C	MW-2C	MW-2C	MW-3A	MW-3A
Date		02/24/2014	09/26/2014	04/20/2015	10/07/2015	03/29/2016	10/03/2012	11/28/2012
Field Sample ID		MW-2C-022414	MW-2C-092614	MW-2C-042015	MW-2C-100715	MW-2C-032916	MW-3A-100312	MW-3A-112812
SDG		680-98941-1	680-105703-1	680-111819-2&3	680-117551-1	680-123536-1	680-83469-1	680-85180-1&2
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		REG	REG	REG	REG	REG	REG	REG
Sample Type		GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered					
110.2	pH	S. U.	N					
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	5600		6600		6600
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	5700		6600		6700
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	17000		23000		19000
SM3500-FeD	FERROUS IRON	ug/L	N	2300	HF			
SM4500S2-E	SULFIDE	mg/L	N					
SM4500S2-F	SULFIDE	mg/L	N					
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N					
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	340				
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	320				
SW6010	ALUMINUM	mg/L	N	0.13	J	0.2	U	0.4
SW6010	ANTIMONY	ug/L	N	210		20	U	40
SW6010	ARSENIC	mg/L	N	0.067		0.02	U	0.04
SW6010	BARIIUM	mg/L	N	0.11		0.18		0.23
SW6010	BERYLLIUM	mg/L	N	0.0024	J	0.0024	J	0.0016
SW6010	CADMIUM	mg/L	N	0.0028	J	0.0022	J	0.0015
SW6010	CALCIUM	mg/L	N	28		20		31
SW6010	CHROMIUM	mg/L	N	0.4		0.17		0.15
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.02
SW6010	COPPER	mg/L	N	0.024		0.0057	J	0.04
SW6010	IRON	mg/L	N	3.2		5.4		8.6
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.02
SW6010	MAGNESIUM	mg/L	N	4.6		13		18
SW6010	MANGANESE	mg/L	N	0.21		0.19		0.25
SW6010	NICKEL	mg/L	N	0.058		0.012	J	0.01
SW6010	POTASSIUM	mg/L	N	50		44		45
SW6010	RESPIRABLE QUARTZ	ug/L	Y	59000		110000		83000
SW6010	SELENIUM	mg/L	N	0.011	J	0.028		0.033
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.02
SW6010	SODIUM	mg/L	N	13000		12000		12000
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.05
SW6010	VANADIUM	ug/L	N	950		250		180
SW6010	ZINC	ug/L	N	23		20	U	29
SW7470	MERCURY	ug/L	N	34		5.3		6.4
SW7470	MERCURY	ug/L	Y					
SW9034	SULFIDE	mg/L	N	40	U			
SW9038	SULFATE	mg/L	N	1200				
SW9040	pH	S. U.	N	6.72	H	7.05	H	7.07
SW9056	CHLORIDE	mg/L	N					
SW9056	SULFATE	mg/L	N					
SW9251	CHLORIDE	mg/L	N	15000				

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-3A	MW-3A	MW-105B	MW-105B	MW-105C	MW-105C	MW-105C
Date		09/06/2013	03/05/2014	09/04/2013	03/05/2014	08/30/2013	03/04/2014	09/29/2014
Field Sample ID		MW-3A-090613	MW-3A-030514	MW-105B-090413	MW-105B-030514	MW-105C-083013	MW-105C-030414	MW-105C-09291
SDG		680-93954-1	680-99155-1	680-93870-1	680-99155-1	680-93799-1	680-99155-1	680-105809-1
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		REG	REG	REG	REG	REG	REG	REG
Sample Type		GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered					
110.2	pH	S. U.	N					
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	5000	5700	320	310	170
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	50	50	25	300
SM2320B	ALKALINITY, TOTAL	mg/L	N	5000	5800	320	310	520
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	20000	18000	980	940	2600
SM3500-FeD	FERROUS IRON	ug/L	N	2800	1000	240	190	6800
SM4500S2-E	SULFIDE	mg/L	N					
SM4500S2-F	SULFIDE	mg/L	N					
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N					
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	390	270	130	99	86
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	320	220	130	85	86
SW6010	ALUMINUM	mg/L	N	20	8.5	12	5.4	6.6
SW6010	ANTIMONY	ug/L	N	5.3	5.4	5.3	20	27
SW6010	ARSENIC	mg/L	N	0.016	0.014	0.0077	0.0086	0.059
SW6010	BARIIUM	mg/L	N	0.14	0.094	0.036	0.019	0.36
SW6010	BERYLLIUM	mg/L	N	0.0023	0.0015	0.00048	0.004	0.012
SW6010	CADMIUM	mg/L	N	0.002	0.005	0.002	0.005	0.01
SW6010	CALCIUM	mg/L	N	40	63	2.9	7.2	7.3
SW6010	CHROMIUM	mg/L	N	0.054	0.071	0.037	0.019	0.09
SW6010	COBALT	mg/L	N	0.00095	0.01	0.00095	0.01	0.0048
SW6010	COPPER	mg/L	N	0.0019	0.02	0.0068	0.0031	0.0095
SW6010	IRON	mg/L	N	5.7	3.2	1	0.52	14
SW6010	LEAD	mg/L	N	0.004	0.01	0.053	0.025	0.039
SW6010	MAGNESIUM	mg/L	N	19	32	0.84	1.7	0.38
SW6010	MANGANESE	mg/L	N	0.49	0.47	0.0078	0.012	0.036
SW6010	NICKEL	mg/L	N	0.018	0.018	0.0065	0.0032	0.012
SW6010	POTASSIUM	mg/L	N	82	72	1.6	1.9	0.68
SW6010	RESPIRABLE QUARTZ	ug/L	Y	18000	13000	7100	2900	170000
SW6010	SELENIUM	mg/L	N	0.024	0.037	0.0064	0.01	0.032
SW6010	SILVER	mg/L	N	0.00089	0.01	0.00089	0.01	0.0045
SW6010	SODIUM	mg/L	N	8700	10000	250	310	720
SW6010	THALLIUM	mg/L	N	0.0088	0.025	0.0088	0.025	0.044
SW6010	VANADIUM	ug/L	N	160	120	64	38	73
SW6010	ZINC	ug/L	N	17	11	12	9.1	70
SW7470	MERCURY	ug/L	N	1.5	0.96	7.7	0.71	58
SW7470	MERCURY	ug/L	Y					21
SW9034	SULFIDE	mg/L	N	10	10	10	10	22
SW9038	SULFATE	mg/L	N	220	50	13	13	29
SW9040	pH	S. U.	N	7.35	6.93	5.69	6.85	11.0
SW9056	CHLORIDE	mg/L	N					
SW9056	SULFATE	mg/L	N					
SW9251	CHLORIDE	mg/L	N	9700	11000	160	200	630

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID				MW-105C		MW-105C		MW-105C		MW-105C		MW-112C		MW-112C		
Date				04/27/2015		10/06/2015		10/06/2015		04/04/2016		09/05/2013		02/28/2014		
Field Sample ID#				MW-105C-042715		MW-105C-100615		MW-105C-DUP-100615		MW-105C-040416		MW-112C-090513		MW-112C-022814		
SDG				680-111968-1 & 2		680-117551-1		680-117551-1		680-123793-1		680-93954-1		680-99043-1		
Matrix				WATER		WATER		WATER		WATER		WATER		WATER		
Sample Purpose				REG		REG		FD		REG		REG		REG		
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		
Method	Parameter Name	Units	Filtered													
110.2	pH	S.U.	N													
SM2320B	ALKALINITY, BICARBONATE (AS CaCO ₃)	mg/L	N	U	2500		1900		1900		3400		1400		960	
SM2320B	ALKALINITY, CARBONATE (AS CaCO ₃)	mg/L	N	U	5.0	U	50	U	50	U	50	U	2300		2600	
SM2320B	ALKALINITY, TOTAL	mg/L	N	U	2500		1900		1900		3400		3800		3700	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N		6400		6100		5600		5200		28000		30000	
SM3500-FeD	FERROUS IRON	ug/L	N										4300	HF	9500	HF
SM4500S2-E	SULFIDE	mg/L	N													
SM4500S2-F	SULFIDE	mg/L	N													
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N													
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y										740		680	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N										580		1200	
SW6010	ALUMINUM	mg/L	N	J	0.12	J	0.14	J	0.11	J	0.17	J	1.5		0.3	
SW6010	ANTIMONY	ug/L	N	U	20	U	20	U	20	U	20	U	5.3	U	20	U
SW6010	ARSENIC	mg/L	N	U	0.0066	J	0.02	U	0.02	U	0.02	U	0.026		0.021	
SW6010	BARIIUM	mg/L	N		0.064		0.045		0.044		0.048		0.02		0.0065	J
SW6010	BERYLLIUM	mg/L	N	J	0.00081	J	0.00098	J	0.00097	J	0.0021	J	0.0088		0.0015	J
SW6010	CADMIUM	mg/L	N	U	0.005	U	0.005	U	0.005	U	0.005	U	0.002	U	0.005	U
SW6010	CALCIUM	mg/L	N		3.2		2.2		2.2		2.9		31		7.4	
SW6010	CHROMIUM	mg/L	N	J	0.0055	J	0.005	J	0.005	J	0.012		0.83		1.1	
SW6010	COBALT	mg/L	N	U	0.01	U	0.01	U	0.01	U	0.01	U	0.0012	J	0.0032	J
SW6010	COPPER	mg/L	N	U	0.02	U	0.0033	J	0.0018	J	0.02	U	0.054		0.11	
SW6010	IRON	mg/L	N		5.6		4.4		4.2		6.4		4.5		3.1	
SW6010	LEAD	mg/L	N	U	0.01	U	0.01	U	0.01	U	0.01	U	0.0049	J	0.01	U
SW6010	MAGNESIUM	mg/L	N	J	0.98		0.55		0.55		0.81		0.098	J	0.04	J
SW6010	MANGANESE	mg/L	N		0.029		0.018		0.017		0.026		0.056		0.0072	J
SW6010	NICKEL	mg/L	N	U	0.04	U	0.04	U	0.04	U	0.04	U	0.069		0.14	
SW6010	POTASSIUM	mg/L	N		3.7		3.3		3.4		4.2		27		18	
SW6010	RESPIRABLE QUARTZ	ug/L	Y		61000		490000		64000		54000		490000		650000	
SW6010	SELENIUM	mg/L	N	U	0.0098	J	0.017	J	0.012	J	0.02	U	0.027		0.04	
SW6010	SILVER	mg/L	N	U	0.01	U		U	0.01	U	0.01	U	0.00089	U	0.01	U
SW6010	SODIUM	mg/L	N		2500		2400		2500		2700		13000		5200	
SW6010	THALLIUM	mg/L	N	U	0.025	U	0.025	U	0.025	U	0.025	U	0.0088	U	0.025	U
SW6010	VANADIUM	ug/L	N	J	3.1	J	3.0	J	2.5	J			4400		2700	
SW6010	ZINC	ug/L	N	J	20	U	7.3	J	20	U	7.5	J	22		25	
SW7470	MERCURY	ug/L	N		0.95		1.1		0.78	J	1.1		14		10	
SW7470	MERCURY	ug/L	Y													
SW9034	SULFIDE	mg/L	N										35		15	
SW9038	SULFATE	mg/L	N										50	U	500	U
SW9040	pH	S.U.	N	H	6.82	H	7.37	H	7.45	H	7.10	HF	10.2	H	10.5	H
SW9056	CHLORIDE	mg/L	N													
SW9056	SULFATE	mg/L	N													
SW9251	CHLORIDE	mg/L	N										13000		14000	

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 - HF Field parameter with a holding time of 15 minutes.
 - F Duplicate RPD exceeds the control limit.
 - B Compound was found in the blank and sample.

Location ID		MW-112C	MW-112C	MW-112C	MW-112C	MW-112C	MW-112C	MW-113C	
Date		09/27/2014	04/27/2015	10/08/2015	03/30/2016	03/30/2016	09/03/2013		
Field Sample ID		MW-112C-092714	MW-112C-042715	MW-112C-100815	MW-112C-033016	MW-112C-DUP-033016	MW-113C-090313		
SDG		680-105809-1	680-111968-1&2	680-117666-2	680-123536-1	680-123536-1	680-93870-1		
Matrix		WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose		REG	REG	REG	REG	FD	REG		
Sample Type		GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS		
Method	Parameter Name	Units	Filtered						
110.2	pH	S. U.	N						
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1200	990	350	1200	1200	850
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	3400	3200	3100	2100	2100	140
SM2320B	ALKALINITY, TOTAL	mg/L	N	4700	4400	3900	3400	3500	1000
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	30000	12000	H 32000	21000	24000	27000
SM3500-FeD	FERROUS IRON	ug/L	N						320
SM4500S2-E	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N						
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y						690
SM5310B	TOTAL ORGANIC CARBON	mg/L	N						710
SW6010	ALUMINUM	mg/L	N	0.43	0.36	J 0.2	J 1.3	1.2	2.9
SW6010	ANTIMONY	ug/L	N	20	U 40	U 11	J 7.8	J 20	U 5.3
SW6010	ARSENIC	mg/L	N	0.035	0.069	0.05	0.057	0.05	0.0069
SW6010	BARIUM	mg/L	N	0.0045	J 0.0097	J 0.0025	J 0.029	0.026	1.5
SW6010	BERYLLIUM	mg/L	N	0.0028	J 0.0033	J 0.0018	J 0.0068	0.0062	0.0083
SW6010	CADMIUM	mg/L	N	0.003	J 0.01	U 0.005	U 0.0018	J 0.0018	J 0.002
SW6010	CALCIUM	mg/L	N	11	14	7.2	23	21	820
SW6010	CHROMIUM	mg/L	N	2.2	2.3	1.6	1.9	1.7	0.26
SW6010	COBALT	mg/L	N	0.0051	J 0.0052	J 0.003	J 0.0052	J 0.0045	J 0.00095
SW6010	COPPER	mg/L	N	0.22	0.17	0.12	0.17	0.15	0.019
SW6010	IRON	mg/L	N	5.9	6.4	4.5	4.8	4.4	0.45
SW6010	LEAD	mg/L	N	0.01	U 0.02	U 0.01	U 0.01	U 0.01	U 0.004
SW6010	MAGNESIUM	mg/L	N	0.04	J 0.076	J 0.044	J 0.08	J 0.08	J 0.073
SW6010	MANGANESE	mg/L	N	0.0092	J 0.0095	J 0.0026	J 0.041	0.037	0.002
SW6010	NICKEL	mg/L	N	0.27	0.29	0.21	0.21	0.2	0.036
SW6010	POTASSIUM	mg/L	N	49	39	22	43	37	65
SW6010	RESPIRABLE QUARTZ	ug/L	Y	1100000	690000	1200000	670000	660000	3700
SW6010	SELENIUM	mg/L	N	0.025	0.062	0.042	0.04	0.032	0.039
SW6010	SILVER	mg/L	N	0.01	U 0.02	U 0.01	U 0.01	U 0.01	U 0.0059
SW6010	SODIUM	mg/L	N	10000	11000	9000	9300	8600	8500
SW6010	THALLIUM	mg/L	N	0.025	U 0.05	U 0.025	U 0.025	U 0.025	U 0.0088
SW6010	VANADIUM	ug/L	N	5100	5400	3900			1300
SW6010	ZINC	ug/L	N	46	57	34	28	25	11
SW7470	MERCURY	ug/L	N	23	27	24	24	25	45
SW7470	MERCURY	ug/L	Y						
SW9034	SULFIDE	mg/L	N						10
SW9038	SULFATE	mg/L	N						400
SW9040	pH	S. U.	N	10.5	H 10.6	H 11.0	H 10.4	HF 10.4	HF 8.94
SW9056	CHLORIDE	mg/L	N						
SW9056	SULFATE	mg/L	N						
SW9251	CHLORIDE	mg/L	N						14000

Analytical Laboratory: TestAmerica Savannah

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				MW-113C				MW-113C				MW-113C				MW-113C				MW-113C																															
Date				03/04/2014				03/04/2014				09/27/2014				04/27/2015				10/08/2015				03/30/2016																											
Field Sample ID				MW-113C-030414				MW-113CDUPLICATE-030414				MW-113C-092714				MW-113C-042715				MW-113C-100815				MW-113C-033016																											
SDG				680-99155-1				680-99155-1				680-105809-1				680-111968-1&2				680-117666-2				680-123536-1																											
Matrix				WATER				WATER				WATER				WATER				WATER				WATER																											
Sample Purpose				REG				FD				REG				REG				REG				REG																											
Sample Type				GW-GWS				GW-GWS				GW-GWS				GW-GWS				GW-GWS				GW-GWS																											
Method	Parameter Name	Units	Filtered																																																
110.2	pH	S. U.	N																																																
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2200				2200				2200				2300				1900				2200																											
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	610				620				530				590				1200				540																											
SM2320B	ALKALINITY, TOTAL	mg/L	N	2800				2800				2800				2900				3100				2800																											
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	23000				22000				28000				27000				34000				28000																											
SM3500-FeD	FERROUS IRON	ug/L	N	2400				2700				HF				HF																																			
SM4500S2-E	SULFIDE	mg/L	N																																																
SM4500S2-F	SULFIDE	mg/L	N																																																
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N																																																
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	1000				1100																																											
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	970				940																																											
SW6010	ALUMINUM	mg/L	N	6.8				6.5				7.6				7.9				7				7.7																											
SW6010	ANTIMONY	ug/L	N	20				20				U				U				J				J				U																							
SW6010	ARSENIC	mg/L	N	0.026				0.019				J				U				0.028				J				0.026																							
SW6010	BARIUM	mg/L	N	0.12				0.11				0.12				0.17				0.11				0.091																											
SW6010	BERYLLIUM	mg/L	N	0.018				0.018				0.018				0.023				0.02				0.019																											
SW6010	CADMIUM	mg/L	N	0.0023				J				0.0022				J				0.005				U				0.01				U				0.0018				J				0.0017				J			
SW6010	CALCIUM	mg/L	N	20				18				20				28				17				13																											
SW6010	CHROMIUM	mg/L	N	0.75				0.72				0.65				0.91				0.55				0.73																											
SW6010	COBALT	mg/L	N	0.0036				J				0.0034				J				0.0015				J				0.003				J				0.002				J				0.0028				J			
SW6010	COPPER	mg/L	N	0.063				0.058				0.062				0.064				0.046				0.073																											
SW6010	IRON	mg/L	N	1.2				1.2				1.2				1.6				1.2				1.3																											
SW6010	LEAD	mg/L	N	0.01				U				0.01				U				0.01				U				0.02				U				0.0063				J				0.01				U			
SW6010	MAGNESIUM	mg/L	N	0.12				J				0.11				J				0.1				J				0.14				J				0.11				J				0.1				J			
SW6010	MANGANESE	mg/L	N	0.0095				J				0.0095				J				0.01				0.013				J				0.011				0.012															
SW6010	NICKEL	mg/L	N	0.11				0.11				0.096				0.15				0.078				0.11																											
SW6010	POTASSIUM	mg/L	N	83				82				150				130				91				120																											
SW6010	RESPIRABLE QUARTZ	ug/L	Y	2600				2600				50000				42000				12000				6100																											
SW6010	SELENIUM	mg/L	N	0.064				B				0.065				B				0.019				J				0.064				0.041				0.032															
SW6010	SILVER	mg/L	N	0.01				U				0.01				U				0.01				U				0.02				U				0.01				U				0.01				U			
SW6010	SODIUM	mg/L	N	12000				12000				12000				12000				14000				11000																											
SW6010	THALLIUM	mg/L	N	0.025				U				0.025				U				0.025				U				0.025				U																			
SW6010	VANADIUM	ug/L	N	2700				2600				2600				3000				2400																															
SW6010	ZINC	ug/L	N	13				J				17				J				16				J				40				U				12				J				12				J			
SW7470	MERCURY	ug/L	N	3.1				3.0				17				16				13				15																											
SW7470	MERCURY	ug/L	Y																																																
SW9034	SULFIDE	mg/L	N	10				U				10				U																																			
SW9038	SULFATE	mg/L	N	250				U				250				U																																			
SW9040	pH	S. U.	N	9.13				H				9.14				H				9.07				H				9.08				H				9.83				H				9.21				HF			
SW9056	CHLORIDE	mg/L	N																																																
SW9056	SULFATE	mg/L	N																																																
SW9251	CHLORIDE	mg/L	N	15000				14000																																											

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5102 LaRoche Avenue, Savannah, GA 31404

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-115A		MW-115A		MW-115A		MW-115A		MW-115A		MW-115A		MW-115B	
Date		10/03/2012		10/03/2012		11/28/2012		09/05/2013		09/05/2013		03/04/2014		10/03/2012	
Field Sample ID		MW-115A-100312		MW-115A2-100312		MW-115A-112812		MW-115A-090513		MW-115A2-090513		MW-115A-030414		MW-115B-1003	
SDG		680-83469-1		680-83469-1		680-85180-1&2		680-93954-1		680-93954-1		680-99155-1		680-83469-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		FD		REG		REG		FD		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	630	H	640	H	800	H	860		840		800	720
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	100	U,H	100	U,H	100	U,H	50	U	50	U	50	100
SM2320B	ALKALINITY, TOTAL	mg/L	N	630	H	640	H	800	H	870		850		800	730
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	3700		3700		3800		4300		4200		3800	3400
SM3500-FeD	FERROUS IRON	ug/L	N	190		170		210		630	HF	660	HF	480	960
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N	4.5		5.8		16							6.3
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	240		230		240		210		220		260	230
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	220		210		220		220		230		230	230
SW6010	ALUMINUM	mg/L	N	24		24		27		20		20		23	2.1
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	5.6	J	5.3	U	20	20
SW6010	ARSENIC	mg/L	N	0.0095	J	0.0086	J	0.0083	J	0.0046	U	0.0051	J	0.014	0.011
SW6010	BIARIUM	mg/L	N	0.069		0.07		0.069		0.053		0.054		0.074	0.046
SW6010	BERYLLIUM	mg/L	N	0.0032	J	0.0032	J	0.0036	J	0.0031	J	0.003	J	0.0035	0.011
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.002	U	0.002	U	0.005	0.005
SW6010	CALCIUM	mg/L	N	17		17		16		20		19		18	12
SW6010	CHROMIUM	mg/L	N	0.09		0.089		0.087		0.045		0.045		0.089	0.07
SW6010	COBALT	mg/L	N	0.0014	J	0.0017	J	0.0021	J	0.00095	U	0.00095	U	0.0019	0.01
SW6010	COPPER	mg/L	N	0.0065	J	0.0057	J	0.0064	J	0.0019	U	0.0019	U	0.0069	0.0023
SW6010	IRON	mg/L	N	1.1		1.1		1.3		0.38		0.36		1.1	0.65
SW6010	LEAD	mg/L	N	0.019		0.019		0.025		0.0042	J	0.0044	J	0.032	0.013
SW6010	MAGNESIUM	mg/L	N	3.1		3.1		2.9		4.1		4		3.6	0.98
SW6010	MANGANESE	mg/L	N	0.35		0.35		0.34		0.39		0.39		0.34	0.0071
SW6010	NICKEL	mg/L	N	0.012	J	0.012	J	0.013	J	0.0065	J	0.0076	J	0.014	0.008
SW6010	POTASSIUM	mg/L	N	6.9		7		7.6		8.6		8.4		6.6	0.61
SW6010	RESPIRABLE QUARTZ	ug/L	Y	19000		19000		28000		17000		17000		17000	18000
SW6010	SELENIUM	mg/L	N	0.014	J	0.016	J	0.015	J	0.0075	J	0.0089	J	0.009	0.0083
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.00089	U	0.00089	U	0.01	0.01
SW6010	SODIUM	mg/L	N	1200		1200		470	J	1300		1300		1300	1100
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.0088	U	0.0088	U	0.025	0.025
SW6010	VANADIUM	ug/L	N	150		150		140		110		120		150	110
SW6010	ZINC	ug/L	N	13	J	12	J	33		9.2	J	8.7	U	10	20
SW7470	MERCURY	ug/L	N	7.2		7.0		7.6		5.3		4.1		0.57	5.5
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N							10	U	10	U	10	U
SW9038	SULFATE	mg/L	N							120		130		110	
SW9040	pH	S. U.	N	7.66	H	7.69	H	7.70		7.51	H	7.48	H	7.59	9.11
SW9056	CHLORIDE	mg/L	N	1300		1300		1100							1200
SW9056	SULFATE	mg/L	N	100	U	100	U	100	U						100
SW9251	CHLORIDE	mg/L	N							1600		1600		1500	

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HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-115B		MW-115B		MW-115B		MW-115C				
Date		11/28/2012		09/05/2013		03/04/2014		10/03/2012				
Field Sample ID		112		MW-115B-112812		MW-115B-090513		MW-115C-100312				
SDG		680-85180-1 & 2		680-93954-1		680-99155-1		680-83469-1				
Matrix		WATER		WATER		WATER		WATER				
Sample Purpose		REG		REG		REG		REG				
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS				
Method	Parameter Name	Units	Filtered									
110.2	pH	S. U.	N									
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	H	1400	H	700		1300	700	H	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	U,H	100	U,H	50	U	50	U	3500	H
SM2320B	ALKALINITY, TOTAL	mg/L	N	H	1400	H	730		1300		4700	H
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N		4300		3600		3600		33000	
SM3500-FeD	FERROUS IRON	ug/L	N		5000		1400	HF	2800	HF	1300	
SM4500S2-E	SULFIDE	mg/L	N									
SM4500S2-F	SULFIDE	mg/L	N		12						35	
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N									
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y		210		230		230		1300	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N		190		230		220		1500	
SW6010	ALUMINUM	mg/L	N		5		4		5.4		0.2	U
SW6010	ANTIMONY	ug/L	N	U	20	U	5.3	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	J	0.016	J	0.012	J	0.019	J	0.28	
SW6010	BARIUM	mg/L	N		0.031		0.06		0.04		0.016	
SW6010	BERYLLIUM	mg/L	N		0.013		0.012		0.012		0.0019	J
SW6010	CADMIUM	mg/L	N	U	0.005	U	0.002	U	0.005	U	0.002	J
SW6010	CALCIUM	mg/L	N		9		15		9.1		0.56	
SW6010	CHROMIUM	mg/L	N		0.096		0.076		0.089		0.34	
SW6010	COBALT	mg/L	N	U	0.01	U	0.00095	U	0.01	U	0.0019	J
SW6010	COPPER	mg/L	N	J	0.0023	J	0.004	J	0.0032	J	0.022	
SW6010	IRON	mg/L	N		3.8		0.91		2.4		1.5	
SW6010	LEAD	mg/L	N		0.015		0.02		0.014		0.01	U
SW6010	MAGNESIUM	mg/L	N		7.5		2.6		4.8		0.019	J
SW6010	MANGANESE	mg/L	N	J	0.063		0.013		0.056		0.01	U
SW6010	NICKEL	mg/L	N	J	0.0062	J	0.0094	J	0.0076	J	0.069	
SW6010	POTASSIUM	mg/L	N	J	1.1		0.69	J	1		11	
SW6010	RESPIRABLE QUARTZ	ug/L	Y		110000		22000		59000		2000000	
SW6010	SELENIUM	mg/L	N	J	0.012	J	0.0064	U	0.01	J	0.025	
SW6010	SILVER	mg/L	N	U	0.01	U	0.00089	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N		640		1000		1300		13000	
SW6010	THALLIUM	mg/L	N	U	0.025	U	0.0088	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N		130		130		140		1500	
SW6010	ZINC	ug/L	N	U	11	J	15	J	20	U	15	J
SW7470	MERCURY	ug/L	N		3.9		5.2		0.65		120	
SW7470	MERCURY	ug/L	Y									
SW9034	SULFIDE	mg/L	N				10	U	10	U		
SW9038	SULFATE	mg/L	N				30		100	U		
SW9040	pH	S. U.	N	H	6.41		8.91	H	6.52	H	11.4	H
SW9056	CHLORIDE	mg/L	N		1200						15000	
SW9056	SULFATE	mg/L	N	U	100	U					950	
SW9251	CHLORIDE	mg/L	N				1300		1200			

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- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-115C		MW-115C		MW-115C		MW-115C		MW-115C		MW-115C	
Date		11/27/2012		02/05/2013		05/16/2013		08/27/2013		02/24/2014		09/25/2014	
Field Sample ID		MW-115C-112712		MW-115C-020513		MW-115C_051613		MW-115C-082713		MW-115C-022414		MW-115C-092514	
SDG		680-85137-1&2		680-87157-1		680-90380-1		680-93690-1		680-98941-1		680-105703-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1700	H	97		1000		1100		6200	3100
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	3200	H	340		4000		3700		55	2600
SM2320B	ALKALINITY, TOTAL	mg/L	N	5100	H	450		5100		4900		6200	5700
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	34000		35000		31000		32000		16000	19000
SM3500-FeD	FERROUS IRON	ug/L	N	1500		1600	HF	1700	HF	1600	HF	3000	HF
SM4500S2-E	SULFIDE	mg/L	N					6.3					
SM4500S2-F	SULFIDE	mg/L	N	40		69							
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	450	B	1300		1400		320		300	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	560		1100		1400		290		310	
SW6010	ALUMINUM	mg/L	N	0.2	U	0.1	U	1	U	0.1	U	0.13	J 0.2 U
SW6010	ANTIMONY	ug/L	N	14	J	11	J	53	U	36		11	J 20 U
SW6010	ARSENIC	mg/L	N	0.098		0.18		0.22		0.092		0.02	U 0.02 U
SW6010	BARIUM	mg/L	N	0.056		0.026		0.023	U	0.021		0.19	0.031
SW6010	BERYLLIUM	mg/L	N	0.0019	J	0.0015	J	0.002	U	0.0017	J	0.0028	J 0.0015 J
SW6010	CADMIUM	mg/L	N	0.0025	J	0.0021	J	0.02	U	0.002	U	0.0025	J 0.005 U
SW6010	CALCIUM	mg/L	N	2.8		0.85		0.96	U	0.87		13	1.1
SW6010	CHROMIUM	mg/L	N	0.34		0.34		0.14		0.16		0.27	0.16
SW6010	COBALT	mg/L	N	0.0018	J	0.0021	J	0.0095	U	0.00095	U	0.01	U 0.01 U
SW6010	COPPER	mg/L	N	0.02		0.018	J	0.019	U	0.0026	J	0.013	J 0.0063 J
SW6010	IRON	mg/L	N	1.1		1.2		0.98	J	0.91		4.4	0.67
SW6010	LEAD	mg/L	N	0.01	U	0.004	U	0.04	U	0.004	U	0.01	U 0.01 U
SW6010	MAGNESIUM	mg/L	N	0.38	J	0.097	J	0.099	U	0.052	J	10	0.26 J
SW6010	MANGANESE	mg/L	N	0.0052	J	0.002	U	0.02	U	0.002	U	0.13	0.0034 J
SW6010	NICKEL	mg/L	N	0.059		0.067		0.027	J	0.023	J	0.027	J 0.02 J
SW6010	POTASSIUM	mg/L	N	19		8		5.5	J	13		30	15
SW6010	RESPIRABLE QUARTZ	ug/L	Y	470000		2000000		2000000		1600000		59000	280000
SW6010	SELENIUM	mg/L	N	0.036		0.034		0.069	J	0.034		0.02	U 0.038
SW6010	SILVER	mg/L	N	0.01	U	0.00089	U	0.0089	U	0.034		0.0014	J 0.01 U
SW6010	SODIUM	mg/L	N	6600		12000		13000		13000		12000	13000
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U	0.088	U	0.0088	U	0.025	U 0.025 U
SW6010	VANADIUM	ug/L	N	1400		1500		1600		1400		510	900
SW6010	ZINC	ug/L	N	18	J	23		87	U	38		11	J 20 U
SW7470	MERCURY	ug/L	N	110		110		180		62		19	26
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N							11		40	U
SW9038	SULFATE	mg/L	N									1100	
SW9040	pH	S. U.	N	9.94		10.7		10.4	H	10.7	H	7.56	H 9.73 H
SW9056	CHLORIDE	mg/L	N	18000		17000		16000		15000			
SW9056	SULFATE	mg/L	N	1100		1000		930		950			
SW9251	CHLORIDE	mg/L	N									14000	

Analytical Laboratory: TestAmerica Savannah
5102 LaRoche Avenue, Savannah, GA 31404

Qualifiers:
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 J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 H Sample was prepped or analyzed beyond the specified holding time.
 HF Field parameter with a holding time of 15 minutes.
 F Duplicate RPD exceeds the control limit.
 B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				MW-115C	MW-115C	MW-115C	MW-352A	MW-352A	MW-352A	MW-352A
Date				04/21/2015	10/07/2015	03/29/2016	09/05/2013	02/27/2014	09/24/2014	04/24/2015
Field Sample ID				MW-115C-042115	MW-115C-100715	MW-115C-032916	MW-352A-090513	MW-352A-022714	MW-352A-092414	MW-352A-042415
SDG				680-111819-2&3	680-117666-2	680-123536-1	680-93954-1	680-99043-1	680-105703-1	680-111968-1&2
Matrix				WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose				REG	REG	REG	REG	REG	REG	REG
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered							
110.2	pH	S. U.	N							
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	5300	4100	6000	430	2900	900	4900
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	450	2000	470	580	25	U	510
SM2320B	ALKALINITY, TOTAL	mg/L	N	5800	6100	6500	1100	2900		1400
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	21000	26000	20000	3800	5400		3100
SM3500-FeD	FERROUS IRON	ug/L	N				13000	HF	27000	HF
SM4500S2-E	SULFIDE	mg/L	N							
SM4500S2-F	SULFIDE	mg/L	N							
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N							
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y				360		150	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N				2600		91	
SW6010	ALUMINUM	mg/L	N	0.4	U	0.066	J	0.038	J	4.7
SW6010	ANTIMONY	ug/L	N	40	U	11	J	20	U	5.3
SW6010	ARSENIC	mg/L	N	0.04	U	0.02	U	0.02	U	0.055
SW6010	BARIIUM	mg/L	N	0.085		0.056		0.039		0.28
SW6010	BERYLLIUM	mg/L	N	0.0022	J	0.0016	J	0.0011	J	0.0051
SW6010	CADMIUM	mg/L	N	0.01	U	0.0013	J	0.0013	J	0.0022
SW6010	CALCIUM	mg/L	N	6.6		4.2		2.9		9.4
SW6010	CHROMIUM	mg/L	N	0.28		0.21		0.1		0.56
SW6010	COBALT	mg/L	N	0.02	U	0.01	U	0.01	U	0.023
SW6010	COPPER	mg/L	N	0.04	U	0.0064	J	0.0026	J	0.064
SW6010	IRON	mg/L	N	1.7		0.77		0.38		12
SW6010	LEAD	mg/L	N	0.02	U	0.0054	J	0.01	U	0.098
SW6010	MAGNESIUM	mg/L	N	3.8		1.9		3.8	J	0.14
SW6010	MANGANESE	mg/L	N	0.037		0.017		0.012		0.024
SW6010	NICKEL	mg/L	N	0.028	J	0.018	J	0.0053	J	0.084
SW6010	POTASSIUM	mg/L	N	16		15		14		1.4
SW6010	RESPIRABLE QUARTZ	ug/L	Y	150000		120000		120000		260000
SW6010	SELENIUM	mg/L	N	0.021	J	0.023		0.013	J	0.026
SW6010	SILVER	mg/L	N	0.02	U	0.01	U	0.01	U	0.00089
SW6010	SODIUM	mg/L	N	9200		12000		9300		930
SW6010	THALLIUM	mg/L	N	0.05	U	0.025	U	0.025	U	0.0088
SW6010	VANADIUM	ug/L	N	580		440		350		100
SW6010	ZINC	ug/L	N	40	U	20	U	20	U	150
SW7470	MERCURY	ug/L	N	24		13	F1	5.9		300
SW7470	MERCURY	ug/L	Y							300
SW9034	SULFIDE	mg/L	N						U	10
SW9038	SULFATE	mg/L	N						U	250
SW9040	pH	S. U.	N	8.62	H	9.71	H	8.68	HF	10.7
SW9056	CHLORIDE	mg/L	N							
SW9056	SULFATE	mg/L	N							
SW9251	CHLORIDE	mg/L	N							610

Analytical Laboratory: TestAmerica Savannah

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Qualifiers:

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				MW-352A	MW-352A	MW-352B	MW-352B	MW-352B
Date				10/05/2015	04/18/2016	09/03/2013	02/27/2014	09/24/2014
Field Sample ID				MW-352A-100515	MW-352A-041816	MW-352B-09032013	MW-352B-022714	MW-352B-092414
SDG				680-117551-1	680-124423-1	680-93870-1	680-99043-1	680-105703-1
Matrix				WATER	WATER	WATER	WATER	WATER
Sample Purpose				REG	REG	REG	REG	REG
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered					
110.2	pH	S. U.	N					
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3200	5200	1400	1500	1300
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	50	15000	15000	12000
SM2320B	ALKALINITY, TOTAL	mg/L	N	3200	5300	17000	17000	14000
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	4900	5600	56000	20000	32000
SM3500-FeD	FERROUS IRON	ug/L	N			3000	4300	
SM4500S2-E	SULFIDE	mg/L	N					
SM4500S2-F	SULFIDE	mg/L	N					
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N					
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y			450	240	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N			340	280	
SW6010	ALUMINUM	mg/L	N	1.4	0.35	1.9	1.8	2
SW6010	ANTIMONY	ug/L	N	20	20	5.3	100	200
SW6010	ARSENIC	mg/L	N	0.02	0.02	0.79	0.84	0.91
SW6010	BARIIUM	mg/L	N	0.03	0.054	0.21	0.25	0.28
SW6010	BERYLLIUM	mg/L	N	0.00037	0.004	0.0015	0.0014	0.04
SW6010	CADMIUM	mg/L	N	0.005	0.005	0.0021	0.025	0.05
SW6010	CALCIUM	mg/L	N	5.3	5	3.6	5.5	5.8
SW6010	CHROMIUM	mg/L	N	0.018	0.0092	0.053	0.087	0.11
SW6010	COBALT	mg/L	N	0.01	0.01	0.00095	0.05	0.1
SW6010	COPPER	mg/L	N	0.0024	0.02	0.0089	0.012	0.37
SW6010	IRON	mg/L	N	7.1	17	19	29	30
SW6010	LEAD	mg/L	N	0.01	0.01	0.0068	0.034	0.1
SW6010	MAGNESIUM	mg/L	N	0.94	0.51	0.053	2.5	5
SW6010	MANGANESE	mg/L	N	0.066	0.14	0.0045	0.05	0.1
SW6010	NICKEL	mg/L	N	0.0021	0.04	0.039	0.07	0.074
SW6010	POTASSIUM	mg/L	N	4.7	7	34	55	69
SW6010	RESPIRABLE QUARTZ	ug/L	Y	56000	33000	17000000	14000000	12000000
SW6010	SELENIUM	mg/L	N	0.014	0.02	0.04	0.1	0.14
SW6010	SILVER	mg/L	N	0.01	0.01	0.00089	0.05	0.1
SW6010	SODIUM	mg/L	N	2300	3100	13000	16000	22000
SW6010	THALLIUM	mg/L	N	0.025	0.025	0.0088	0.13	0.25
SW6010	VANADIUM	ug/L	N	10		200	280	330
SW6010	ZINC	ug/L	N	20	20	54	59	200
SW7470	MERCURY	ug/L	N	12	2.2	690	260	390
SW7470	MERCURY	ug/L	Y					
SW9034	SULFIDE	mg/L	N			10	10	
SW9038	SULFATE	mg/L	N			80	89	
SW9040	pH	S. U.	N	7.86	7.23	11.5	11.6	11.5
SW9056	CHLORIDE	mg/L	N					
SW9056	SULFATE	mg/L	N					
SW9251	CHLORIDE	mg/L	N			15000	14000	

Analytical Laboratory: TestAmerica Savannah

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID				MW-352B	MW-352B	MW-352B	MW-352B	MW-352B	MW-352B	MW-353B					
Date				04/24/2015	04/24/2015	10/05/2015	04/20/2016	05/24/2016	09/03/2013						
Field Sample ID				MW-352B-042415	MW-352B-D-042415	MW-352B-100515	MW-352B-042016	MW-352B-052416	MW-353B-090313						
SDG				680-111968-1&2	680-111968-1&2	680-117551-1	680-124423-1	680-125684-1	680-93870-1						
Matrix				WATER	WATER	WATER	WATER	WATER	WATER						
Sample Purpose				REG	FD	REG	REG	REG	REG						
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS						
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2200		2100		780		8200		13000		2600	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	16000		16000		13000		3800		750		1300	
SM2320B	ALKALINITY, TOTAL	mg/L	N	19000		19000		14000		12000		13000		4000	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	50000		42000		59000		36000		24000		34000	
SM3500-FeD	FERROUS IRON	ug/L	N											13000	HF
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y											3600	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N											4400	
SW6010	ALUMINUM	mg/L	N	4		2.3		1.7	J	0.47	J	0.049	J	27	
SW6010	ANTIMONY	ug/L	N	200	U	200	U	61	J	100	U	5.4	J	5.3	U
SW6010	ARSENIC	mg/L	N	1.8		1		0.59		0.17		0.064		0.087	
SW6010	BARIIUM	mg/L	N	0.34		0.21		0.14		0.26		0.3		1.1	
SW6010	BERYLLIUM	mg/L	N	0.0032	J	0.04	U	0.0012	J	0.0014	J	0.0011	J	0.046	
SW6010	CADMIUM	mg/L	N	0.05	U	0.05	U	0.05	U	0.025	U	0.0022	J	0.002	U
SW6010	CALCIUM	mg/L	N	11		6.8		3.5	J	8.3		12		22	
SW6010	CHROMIUM	mg/L	N	0.18		0.11		0.064	J	0.044	J	0.022		2	
SW6010	COBALT	mg/L	N	0.1	U	0.1	U	0.1	U	0.05	U	0.01	U	0.0085	J
SW6010	COPPER	mg/L	N	0.025	J	0.2	U	0.032	J	0.012	J	0.0028	J	0.14	
SW6010	IRON	mg/L	N	57		34		14		6.2		5.4		2	
SW6010	LEAD	mg/L	N	0.1	U	0.1	U	0.1	U	0.05	U	0.01	U	0.016	
SW6010	MAGNESIUM	mg/L	N	0.16	J	0.13	J	5	U	6.3		8.8		0.68	
SW6010	MANGANESE	mg/L	N	0.1	U	0.1	U	0.1	U	0.052		0.13		0.1	
SW6010	NICKEL	mg/L	N	0.18	J	0.1	J	0.062	J	0.03	J	0.015	J	0.3	
SW6010	POTASSIUM	mg/L	N	130		65		58		74		51		18	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	9900000		10000000		10000000		180000		280000		6400	
SW6010	SELENIUM	mg/L	N	0.19	J	0.12	J	0.17	J	0.098	J	0.02		0.035	
SW6010	SILVER	mg/L	N	0.1	U	0.1	U	0.1	U	0.05	U	0.01	U	0.00089	U
SW6010	SODIUM	mg/L	N	36000		22000		23000		18000		14000		11000	
SW6010	THALLIUM	mg/L	N	0.25	U	0.25	U	0.25	U	0.13	U	0.025	U	0.0088	U
SW6010	VANADIUM	ug/L	N	520		310		200						3700	
SW6010	ZINC	ug/L	N	120	J	110	J	82	J	100	U	20	U	46	
SW7470	MERCURY	ug/L	N	470		110		500		280		90		27	
SW7470	MERCURY	ug/L	Y									120			
SW9034	SULFIDE	mg/L	N											91	
SW9038	SULFATE	mg/L	N											510	
SW9040	pH	S. U.	N	11.4	H	11.4	H	11.2	H	9.32	HF	8.80	HF	9.36	H
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N											14000	

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-353B		MW-353B		MW-353B		MW-353B		MW-353B		MW-353B	
Date		03/04/2014		09/27/2014		04/25/2015		10/05/2015		04/04/2016		04/04/2016	
Field Sample ID		MW-353B-030414		MW-353B-092714		MW-353B-042515		MW-353B-100515		MW-353B-040416		MW-353B-DUP-040416	
SDG		680-99155-1		680-105809-1		680-111968-1&2		680-117551-1		680-123793-1		680-123793-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		FD	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2700		2600		2300		1100		2500	2400
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	1300		1400		1900		2100		1900	1800
SM2320B	ALKALINITY, TOTAL	mg/L	N	4000		4000		4200		3400		4400	4300
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	22000		24000		32000		34000		24000	23000
SM3500-FeD	FERROUS IRON	ug/L	N	2900	HF								
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	1300									
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	1100									
SW6010	ALUMINUM	mg/L	N	24		24		17		20		10	11
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	37	J	20	20
SW6010	ARSENIC	mg/L	N	0.09		0.042		0.1		0.08	J	0.056	0.061
SW6010	BARIIUM	mg/L	N	1.1		0.92		0.79		0.99		0.39	0.42
SW6010	BERYLLIUM	mg/L	N	0.049		0.045		0.051		0.063		0.029	0.031
SW6010	CADMIUM	mg/L	N	0.002	J	0.005	U	0.005	U	0.025	U	0.0014	0.0014
SW6010	CALCIUM	mg/L	N	25		22		26		32		15	16
SW6010	CHROMIUM	mg/L	N	1.9		0.56		2.2		2.7		1.3	1.5
SW6010	COBALT	mg/L	N	0.0087	J	0.01	U	0.01		0.0098	J	0.0053	0.0057
SW6010	COPPER	mg/L	N	0.096		0.013	J	0.11		0.16	B	0.075	0.085
SW6010	IRON	mg/L	N	1.9		0.63		2.4		3		1.3	1.4
SW6010	LEAD	mg/L	N	0.014		0.01	U	0.016		0.045	J	0.004	0.0042
SW6010	MAGNESIUM	mg/L	N	1		0.79		0.84		1.1	J	0.53	0.57
SW6010	MANGANESE	mg/L	N	0.069		0.069		0.077		0.11		0.044	0.049
SW6010	NICKEL	mg/L	N	0.28		0.055		0.32		0.38		0.19	0.2
SW6010	POTASSIUM	mg/L	N	21		19		14		11		12	13
SW6010	RESPIRABLE QUARTZ	ug/L	Y	5200		59000		77000		13000		250000	210000
SW6010	SELENIUM	mg/L	N	0.056	B	0.02	U	0.042		0.07	J	0.03	0.03
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.05	U	0.01	0.01
SW6010	SODIUM	mg/L	N	11000		10000		9900		11000		8300	8800
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.13	U	0.025	0.025
SW6010	VANADIUM	ug/L	N	3900		2400		4200		5300			
SW6010	ZINC	ug/L	N	45		15	J	48		58	J	25	27
SW7470	MERCURY	ug/L	N	13		73		6.1		61		160	160
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N	71									
SW9038	SULFATE	mg/L	N	500	U								
SW9040	pH	S. U.	N	9.42	H	9.44	H	9.58	H	10.3	H	9.77	9.66
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N	12000									

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID	MW-357A	MW-357A	MW-357A	MW-357A	MW-357A	MW-357A	MW-357B									
Date	08/28/2013	03/03/2014	10/01/2014	04/27/2015	10/13/2015	04/01/2016	08/28/2013									
Field Sample ID	MW-357A-082813	MW-357A-030314	MW-357A-100114	MW-357A-042715	MW-357A-101315	MW-357A-040116	MW-357B-08281									
SDG	680-93799-1	680-99155-1	680-105809-1	680-111968-1&2	680-117911-1	680-123695-1	680-93690-1									
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER									
Sample Purpose	REG	REG	REG	REG	REG	REG	REG									
Sample Type	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS									
Method	Parameter Name	Units	Filtered													
110.2	pH	S. U.	N													
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	850	3700	3300	3300	3200	3400	630						
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	1100	50	U	50	U	50	U	2500					
SM2320B	ALKALINITY, TOTAL	mg/L	N	2000	3700	3300	3300	3200	3400	3200						
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	11000	9100	8200	5400	6100	5500	15000						
SM3500-FeD	FERROUS IRON	ug/L	N	1300	HF	7300	HF			2100						
SM4500S2-E	SULFIDE	mg/L	N													
SM4500S2-F	SULFIDE	mg/L	N													
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N													
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	270	260					280						
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	230	210					290						
SW6010	ALUMINUM	mg/L	N	7.7	1.6	3.3	7.4	2.4	1.7	0.13						
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	20	U	20	U	5.3				
SW6010	ARSENIC	mg/L	N	0.033	0.036	0.035	0.033	0.016	J	0.0071	J	0.047				
SW6010	BARIUM	mg/L	N	0.053	0.11	0.13	0.14	0.097	0.061	0.069						
SW6010	BERYLLIUM	mg/L	N	0.019	0.034	0.03	0.022	0.017	0.01	0.0047						
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.002				
SW6010	CALCIUM	mg/L	N	11	26	17	19	13	11	12						
SW6010	CHROMIUM	mg/L	N	0.17	0.34	0.28	0.27	0.21	0.12	0.19						
SW6010	COBALT	mg/L	N	0.0018	J	0.01	U	0.01	U	0.01	U	0.0016				
SW6010	COPPER	mg/L	N	0.0058	J	0.0054	J	0.0063	J	0.0036	J	0.0043	J	0.02	U	0.015
SW6010	IRON	mg/L	N	0.84	6.7	6.6	9.8	6.6	4.8	1.1						
SW6010	LEAD	mg/L	N	0.0077	J	0.0056	J	0.013	0.015	0.011	0.0039	J	0.004			
SW6010	MAGNESIUM	mg/L	N	0.46	J	13	7	13	7.9	7.5	0.062					
SW6010	MANGANESE	mg/L	N	0.04	0.079	0.064	0.098	0.05	0.05	0.021						
SW6010	NICKEL	mg/L	N	0.022	J	0.022	J	0.02	J	0.017	J	0.0095	J	0.0052	J	0.047
SW6010	POTASSIUM	mg/L	N	3.2	3.7	3.5	4.8	3.3	2.7	4.8						
SW6010	RESPIRABLE QUARTZ	ug/L	Y	30000	110000	73000	10000	120000	98000	1100000						
SW6010	SELENIUM	mg/L	N	0.0081	J	0.011	J,B	0.02	U	0.014	J	0.02	U	0.02	U	0.019
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.0058
SW6010	SODIUM	mg/L	N	2200	3900	3000	2400	3400	2000	4400						
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.0088
SW6010	VANADIUM	ug/L	N	320	290	280	190	160	480							
SW6010	ZINC	ug/L	N	64	20	U	9.7	J	19	J	8.4	J	20	U	16	
SW7470	MERCURY	ug/L	N	71	4.1	50	13	12	1.0	180						
SW7470	MERCURY	ug/L	Y													
SW9034	SULFIDE	mg/L	N	19	10	U				12						
SW9038	SULFATE	mg/L	N	160	83											
SW9040	pH	S. U.	N	10.2	H	6.75	H	7.32	H	6.79	H	7.17	H	6.91	HF	11.2
SW9056	CHLORIDE	mg/L	N													5500
SW9056	SULFATE	mg/L	N													300
SW9251	CHLORIDE	mg/L	N	3200	3600											

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID				MW-357B	MW-357B	MW-357B	MW-357B	MW-357B	MW-357B
Date				03/03/2014	03/03/2014	10/01/2014	04/25/2015	10/14/2015	
Field Sample ID				3	MW-357B-030314	MW-357BDUPLICATE-030314	MW-357B-100114	MW-357B-042515	MW-357B-101415
SDG				680-99155-1	680-99155-1	680-105809-1	680-111968-1&2	680-117911-1	
Matrix				WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose				REG	FD	REG	REG	REG	REG
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered						
110.2	pH	S. U.	N						
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N		2400	2300	4100	310	550
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N		110	120	290	25	25
SM2320B	ALKALINITY, TOTAL	mg/L	N		2500	2400	4400	310	550
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N		6300	6200	12000	660	1900
SM3500-FeD	FERROUS IRON	ug/L	N	HF	440	410			
SM4500S2-E	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N						
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y		100	100			
SM5310B	TOTAL ORGANIC CARBON	mg/L	N		89	91			
SW6010	ALUMINUM	mg/L	N	J	0.14	0.15	0.11	0.61	0.37
SW6010	ANTIMONY	ug/L	N	U	20	20	20	20	20
SW6010	ARSENIC	mg/L	N		0.0095	0.0052	0.0092	0.0068	0.02
SW6010	BARIUM	mg/L	N		0.11	0.11	0.065	0.043	0.043
SW6010	BERYLLIUM	mg/L	N		0.0028	0.0029	0.0085	0.0033	0.0025
SW6010	CADMIUM	mg/L	N	U	0.005	0.005	0.005	0.005	0.005
SW6010	CALCIUM	mg/L	N		40	41	11	49	53
SW6010	CHROMIUM	mg/L	N		0.067	0.07	0.22	0.023	0.019
SW6010	COBALT	mg/L	N	J	0.01	0.01	0.01	0.01	0.01
SW6010	COPPER	mg/L	N	J	0.0033	0.0032	0.0094	0.02	0.0028
SW6010	IRON	mg/L	N		0.65	0.67	1.5	4.6	6
SW6010	LEAD	mg/L	N	J	0.01	0.01	0.01	0.01	0.01
SW6010	MAGNESIUM	mg/L	N	J	4.5	4.6	1.5	3.8	4.3
SW6010	MANGANESE	mg/L	N		0.12	0.12	0.043	0.99	1
SW6010	NICKEL	mg/L	N		0.013	0.012	0.031	0.0027	0.04
SW6010	POTASSIUM	mg/L	N		8.6	9	8.7	2.4	3.6
SW6010	RESPIRABLE QUARTZ	ug/L	Y		130000	130000	140000	27000	29000
SW6010	SELENIUM	mg/L	N	J	0.029	0.031	0.0072	0.008	0.02
SW6010	SILVER	mg/L	N	J	0.01	0.01	0.01	0.01	0.01
SW6010	SODIUM	mg/L	N		2500	2600	4400	210	440
SW6010	THALLIUM	mg/L	N	U	0.025	0.025	0.025	0.025	0.025
SW6010	VANADIUM	ug/L	N		120	120	310	17	14
SW6010	ZINC	ug/L	N	J	20	8.9	11	20	20
SW7470	MERCURY	ug/L	N		5.7	5.6	45	2.2	1.1
SW7470	MERCURY	ug/L	Y						
SW9034	SULFIDE	mg/L	N		16	14			
SW9038	SULFATE	mg/L	N		23	25			
SW9040	pH	S. U.	N	H	8.60	8.61	8.72	6.84	7.03
SW9056	CHLORIDE	mg/L	N						
SW9056	SULFATE	mg/L	N	J					
SW9251	CHLORIDE	mg/L	N		2600	2700			

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-357B		MW-358B		MW-358B		MW-358B		MW-358B		MW-358B	
Date		04/01/2016		09/04/2013		02/28/2014		09/27/2014		04/27/2015		10/08/2015	
Field Sample ID		MW-357B-040116		MW-358B-090413		MW-358B-022814		MW-358B-092714		MW-358B-042715		MW-358B-100815	
SDG		680-123695-1		680-93870-1		680-99043-1		680-105809-1		680-111968-1&2		680-117666-2	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1800		1100		780		1100		880	340
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	1800		1700		2000		2100	2000
SM2320B	ALKALINITY, TOTAL	mg/L	N	1800		2900		2600		3200		3200	2700
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	2600		23000		21000		17000		18000	23000
SM3500-FeD	FERROUS IRON	ug/L	N			620	HF	1500	HF				
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y			530		540					
SM5310B	TOTAL ORGANIC CARBON	mg/L	N			470		500					
SW6010	ALUMINUM	mg/L	N	1.2		11		7.4		9.6		8.1	8.5
SW6010	ANTIMONY	ug/L	N	20	U	5.3	U	20	U	20	U	20	6.8
SW6010	ARSENIC	mg/L	N	0.02	U	0.037		0.028		0.034		0.044	0.043
SW6010	BARIUM	mg/L	N	0.08		0.046		0.036		0.049		0.047	0.042
SW6010	BERYLLIUM	mg/L	N	0.0041		0.03		0.025		0.031		0.031	0.032
SW6010	CADMIUM	mg/L	N	0.005	U	0.002	U	0.005	U	0.005	U	0.005	0.005
SW6010	CALCIUM	mg/L	N	62		15		12		14		15	12
SW6010	CHROMIUM	mg/L	N	0.033		1.1		0.82		1.1		0.94	0.97
SW6010	COBALT	mg/L	N	0.01	U	0.0026	J	0.0023	J	0.0024	J	0.0016	0.0021
SW6010	COPPER	mg/L	N	0.02	U	0.046		0.03		0.042		0.026	0.028
SW6010	IRON	mg/L	N	17		1.1		0.91		1.1		1.1	0.99
SW6010	LEAD	mg/L	N	0.01	U	0.0092	J	0.006	J	0.0056	J	0.0085	0.011
SW6010	MAGNESIUM	mg/L	N	5.7		0.34	J	0.3	J	0.33	J	0.4	0.34
SW6010	MANGANESE	mg/L	N	1.3		0.086		0.066		0.081		0.083	0.068
SW6010	NICKEL	mg/L	N	0.0022	J	0.11		0.081		0.11		0.098	0.1
SW6010	POTASSIUM	mg/L	N	3.6		9.1		6		9.7		8.7	6.6
SW6010	RESPIRABLE QUARTZ	ug/L	Y	60000		4800		5600		110000		81000	19000
SW6010	SELENIUM	mg/L	N	0.02	U	0.027		0.027		0.02	U	0.019	0.012
SW6010	SILVER	mg/L	N	0.01	U	0.00089	U	0.01	U	0.01	U	0.01	0.01
SW6010	SODIUM	mg/L	N	850		8400		6300		8700		8300	8500
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U	0.025	U	0.025	U	0.025	0.025
SW6010	VANADIUM	ug/L	N			1800		1400		1800		1700	1600
SW6010	ZINC	ug/L	N	8.4	J	21		16	J	21		20	19
SW7470	MERCURY	ug/L	N	1.9		7.1		3.0		13		12	12
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N			23		10	U				
SW9038	SULFATE	mg/L	N			100	U	250	U				
SW9040	pH	S. U.	N	6.94	HF	5.61	H	10.4	H	10.3	H	10.4	10.8
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N			12000		12000					

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID				MW-358B	MW-501A	MW-501A	MW-501A	MW-501B	MW-501B	MW-501B
Date				03/30/2016	08/29/2013	02/27/2014	08/29/2013	02/27/2014	09/22/2014	
Field Sample ID				MW-358B-033016	MW-501A-082913	MW-501A-022714	MW-501B-082913	MW-501B-022714	MW-501B-092214	
SDG				680-123536-1	680-93799-1	680-99043-1	680-93799-1	680-99043-1	680-105604-2	
Matrix				WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose				REG	REG	REG	REG	REG	REG	
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	
Method	Parameter Name	Units	Filtered							
110.2	pH	S. U.	N							
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	830	220	540	200	7800	5300	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	1700	25	25	940	37	50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	2800	220	540	1300	7900	5300	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	19000	840	740	8300	14000	10000	
SM3500-FeD	FERROUS IRON	ug/L	N		740	HF	250	HF	8100	HF
SM4500S2-E	SULFIDE	mg/L	N							
SM4500S2-F	SULFIDE	mg/L	N							
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N							
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y		110		42	50	34	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N		100		42	44	34	
SW6010	ALUMINUM	mg/L	N	5.1	1.2	2.6	8.1	0.2	0.2	U
SW6010	ANTIMONY	ug/L	N	20	U	5.3	U	20	5.3	U
SW6010	ARSENIC	mg/L	N	0.029	0.049	0.02	U	0.0046	U	0.015
SW6010	BARIIUM	mg/L	N	0.012	0.28	0.015		0.037	0.44	
SW6010	BERYLLIUM	mg/L	N	0.022	0.0028	J	0.004	U	0.00039	J
SW6010	CADMIUM	mg/L	N	0.005	U	0.002	U	0.005	U	0.00062
SW6010	CALCIUM	mg/L	N	3.1	9.2	1.6		1.6	26	U
SW6010	CHROMIUM	mg/L	N	0.46	0.046	0.0088	J	0.03	0.02	0.033
SW6010	COBALT	mg/L	N	0.0014	J	0.0018	J	0.01	U	0.01
SW6010	COPPER	mg/L	N	0.014	J	0.0047	J	0.02	U	0.0027
SW6010	IRON	mg/L	N	0.48	11	0.5		1.8	23	7.5
SW6010	LEAD	mg/L	N	0.01	U	0.036		0.0068	J	0.017
SW6010	MAGNESIUM	mg/L	N	0.17	J	0.087	J	0.75	0.39	J
SW6010	MANGANESE	mg/L	N	0.015		0.12		0.0091	J	0.015
SW6010	NICKEL	mg/L	N	0.052		0.013	J	0.04	U	0.0036
SW6010	POTASSIUM	mg/L	N	4.9		4.3		2.5	1.3	21
SW6010	RESPIRABLE QUARTZ	ug/L	Y	26000		9800		6400	680000	57000
SW6010	SELENIUM	mg/L	N	0.016	J	0.009	J	0.02	U	0.0064
SW6010	SILVER	mg/L	N	0.01	U	0.00089	U	0.01	U	0.00089
SW6010	SODIUM	mg/L	N	6400		2200		260	230	6700
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U	0.025	U	0.0088
SW6010	VANADIUM	ug/L	N		70		33	66	25	63
SW6010	ZINC	ug/L	N	8.7	J	45		20	U	10
SW7470	MERCURY	ug/L	N	19		4.3		1.1	48	13
SW7470	MERCURY	ug/L	Y			1.5				17
SW9034	SULFIDE	mg/L	N			22		10	U	19
SW9038	SULFATE	mg/L	N			13		10	U	19
SW9040	pH	S. U.	N	10.9	HF	6.94	H	6.15	H	11.3
SW9056	CHLORIDE	mg/L	N							
SW9056	SULFATE	mg/L	N							
SW9251	CHLORIDE	mg/L	N			57		41		2700

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

				Location ID	MW-501B	MW-501B	MW-501B	MW-502A	MW-502A	MW-502A				
				Date	04/29/2015	10/12/2015	04/05/2016	08/29/2013	02/27/2014	09/29/2014				
				Field Sample ID	MW-501B-042915	MW-501B-101215	MW-501B-040516	MW-502A-082913	MW-502A-022714	MW-502A-092914				
				SDG	680-112022-1&2	680-117780-1	680-123793-1	680-93799-1	680-99043-1	680-105809-1				
				Matrix	WATER	WATER	WATER	WATER	WATER	WATER				
				Sample Purpose	REG	REG	REG	REG	REG	REG				
				Sample Type	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS				
Method	Parameter Name	Units	Filtered											
110.2	pH	S. U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO ₃)	mg/L	N	7000		3800		4500		650		2600		2900
SM2320B	ALKALINITY, CARBONATE (AS CaCO ₃)	mg/L	N	27		50	U	50	U	160		25	U	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	7100		3800		4600		820		2600		2900
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	9800		14000		12000		3200		3800		3600
SM3500-FeD	FERROUS IRON	ug/L	N							2100	HF	1700	HF	
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N											
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y							270		73		
SM5310B	TOTAL ORGANIC CARBON	mg/L	N							220		70		
SW6010	ALUMINUM	mg/L	N	0.13	J	0.12	J	0.063	J	56		1.9		1.8
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	5.3	U	7.5	J	20
SW6010	ARSENIC	mg/L	N	0.017	J	0.0097	J	0.02	U	0.015	J	0.02	U	0.02
SW6010	BARIIUM	mg/L	N	0.29		0.2		0.16		0.36		0.097		0.1
SW6010	BERYLLIUM	mg/L	N	0.00096	J	0.00064	J	0.0005	J	0.0048		0.00043	J	0.0003
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.002	U	0.005	U	0.005
SW6010	CALCIUM	mg/L	N	22		15		16		9.9		28		22
SW6010	CHROMIUM	mg/L	N	0.041		0.037		0.0077	J	0.14		0.032		0.029
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.01	U	0.0031	J	0.01	U	0.01
SW6010	COPPER	mg/L	N	0.02	U	0.02	U	0.02	U	0.0032	J	0.02	U	0.02
SW6010	IRON	mg/L	N	12		9.1		11		3.7		1.9		1.6
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.01	U	0.038		0.01	U	0.0049
SW6010	MAGNESIUM	mg/L	N	16		12		11		0.76		5.7		5.5
SW6010	MANGANESE	mg/L	N	0.17		0.17		0.14		0.04		0.12		0.088
SW6010	NICKEL	mg/L	N	0.013	J	0.0085	J	0.0025	J	0.019	J	0.003	J	0.003
SW6010	POTASSIUM	mg/L	N	21		11		16		1.6		6.5		5.8
SW6010	RESPIRABLE QUARTZ	ug/L	Y	84000		6200000		100000		85000		22000		20000
SW6010	SELENIUM	mg/L	N	0.012	J	0.018	J	0.014	J	0.0064	U	0.02	U	0.02
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.00089	U	0.01	U	0.01
SW6010	SODIUM	mg/L	N	7600		5800		5500		730		1500		1400
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.0088	U	0.025	U	0.025
SW6010	VANADIUM	ug/L	N	55		43				260		46		44
SW6010	ZINC	ug/L	N	140		47		10	J	31		20	U	20
SW7470	MERCURY	ug/L	N	28		17		3.3		69		2.1		4.1
SW7470	MERCURY	ug/L	Y							88				
SW9034	SULFIDE	mg/L	N							22		40	U	
SW9038	SULFATE	mg/L	N							100	U	5.0	U	
SW9040	pH	S. U.	N	7.04		7.65	H	7.87	HF	9.70	H	6.75	H	6.81
SW9056	CHLORIDE	mg/L	N											
SW9056	SULFATE	mg/L	N											
SW9251	CHLORIDE	mg/L	N							400		550		

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-502A		MW-502A		MW-502A		MW-502B		MW-502B		MW-502B	
Date		05/01/2015		10/05/2015		04/05/2016		08/30/2013		12/11/2013		02/27/2014	
Field Sample ID		MW-502A-050115		MW-502A-100515		MW-502A-040516		MW-502B-083013		MW-502B-121113		MW-502B-022714	
SDG		680-112094-1&2		680-117551-1		680-123793-1		680-93799-1		680-97103-1		680-99043-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2200		1700		1900		420			3900
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	50	U	670			50
SM2320B	ALKALINITY, TOTAL	mg/L	N	2200		1700		2000		1200			3900
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	4100	H	3900		3400		3900			5300
SM3500-FeD	FERROUS IRON	ug/L	N							4900	HF		4800
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y							320			58
SM5310B	TOTAL ORGANIC CARBON	mg/L	N							170			70
SW6010	ALUMINUM	mg/L	N	5.6		12		11		2.5			1.4
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	5.3	U		8.0
SW6010	ARSENIC	mg/L	N	0.0057	J	0.011	J	0.0074	J	0.022			0.02
SW6010	BARIIUM	mg/L	N	0.12		0.16		0.12		0.22			0.026
SW6010	BERYLLIUM	mg/L	N	0.00076	J	0.0015	J	0.0014	J	0.015			0.0028
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.002	U		0.005
SW6010	CALCIUM	mg/L	N	26		27		25		8.9			8.2
SW6010	CHROMIUM	mg/L	N	0.059		0.12		0.15		0.19			0.034
SW6010	COBALT	mg/L	N	0.01	U	0.0012	J	0.01	U	0.0045	J		0.01
SW6010	COPPER	mg/L	N	0.02	U	0.0073	J,B	0.0042	J	0.0056	J		0.02
SW6010	IRON	mg/L	N	4.3		5.9		5.6		3.5			4.7
SW6010	LEAD	mg/L	N	0.0071	J	0.017		0.0094	J	0.022			0.01
SW6010	MAGNESIUM	mg/L	N	6.1	B	5.4		4.7		0.097	J		1.7
SW6010	MANGANESE	mg/L	N	0.15		0.18		0.19		0.0096	J		0.06
SW6010	NICKEL	mg/L	N	0.0059	J	0.0092	J	0.0089	J	0.024	J		0.04
SW6010	POTASSIUM	mg/L	N	6.9		5.7		5.3		0.98	J		5.4
SW6010	RESPIRABLE QUARTZ	ug/L	Y	33000		55000		52000		65000			44000
SW6010	SELENIUM	mg/L	N	0.0098	J	0.02	U	0.012	J	0.01	J		0.017
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.00089	U		0.01
SW6010	SODIUM	mg/L	N	1700		1300		1200		940			1900
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.0088	U		0.025
SW6010	VANADIUM	ug/L	N	58		93				270			50
SW6010	ZINC	ug/L	N	20	U	8.2	J	20	U	60			10
SW7470	MERCURY	ug/L	N	2.3		7.5		27		120	32		4.4
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N							18			10
SW9038	SULFATE	mg/L	N							370			5.0
SW9040	pH	S. U.	N	6.79	H	7.25	H	6.72	HF	10.9			6.82
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N							660			650

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-502B		MW-502B		MW-502B		MW-502B		MW-502B		MW-502B	
Date		02/27/2014		09/29/2014		09/29/2014		05/01/2015		10/05/2015		04/05/2016	
Field Sample ID		MW-502BDUP-022714		MW-502B-092914		MW-502B-DUP-092914		MW-502B-050115		MW-502B-100515		MW-502B-040516	
SDG		680-99043-1		680-105809-1		680-105809-1		680-112094-1&2		680-117551-1		680-123793-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		FD		REG		FD		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	4100		3300		3400		3500		3100	3000
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	50	U	50	U	50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	4100		3300		3400		3600		3100	3000
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	4800		4700		4500		5800	H	5600	4000
SM3500-FeD	FERROUS IRON	ug/L	N	3400	HF								
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	66									
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	69									
SW6010	ALUMINUM	mg/L	N	1.4		3		2.8		1		0.69	0.64
SW6010	ANTIMONY	ug/L	N	7.0	J	20	U	20	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
SW6010	BARIUM	mg/L	N	0.027		0.05		0.045		0.039		0.021	0.021
SW6010	BERYLLIUM	mg/L	N	0.0029	J	0.0031	J	0.0031	J	0.0026	J	0.0017	0.0014
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.005	U	0.005	0.005
SW6010	CALCIUM	mg/L	N	8.3		7.3		7.5		16		8.6	6.9
SW6010	CHROMIUM	mg/L	N	0.036		0.049		0.044		0.045		0.025	0.02
SW6010	COBALT	mg/L	N	0.01	U	0.0013	J	0.001	J	0.01	U	0.01	0.01
SW6010	COPPER	mg/L	N	0.02	U	0.0027	J	0.0026	J	0.02	U	0.0045	0.02
SW6010	IRON	mg/L	N	4.8		4.8		4.7		7.4		6.5	5
SW6010	LEAD	mg/L	N	0.01	U	0.01		0.007	J	0.01	U	0.0044	0.01
SW6010	MAGNESIUM	mg/L	N	1.8		0.89		0.9		4.3	B	1.1	1.2
SW6010	MANGANESE	mg/L	N	0.062		0.043		0.044		0.1		0.067	0.053
SW6010	NICKEL	mg/L	N	0.04	U	0.0046	J	0.0037	J	0.04	U	0.04	0.04
SW6010	POTASSIUM	mg/L	N	5.7		4.7		4.8		7.3		4.9	5.1
SW6010	RESPIRABLE QUARTZ	ug/L	Y	44000		51000		49000		58000		58000	63000
SW6010	SELENIUM	mg/L	N	0.01	J	0.02	U	0.02	U	0.0091	J	0.02	0.02
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	SODIUM	mg/L	N	2000		1900		1900		3000		2100	2100
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	0.025
SW6010	VANADIUM	ug/L	N	52		43		43		39		26	
SW6010	ZINC	ug/L	N	20	U	18	J	17	J	20	U	20	20
SW7470	MERCURY	ug/L	N	4.7		18		18		2.9		2.2	0.91
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N	10	U								
SW9038	SULFATE	mg/L	N	5.0	U								
SW9040	pH	S. U.	N	6.85	H	7.04	H	7.06	H	7.04	H	7.63	6.98
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N	650									

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-503B		MW-503B		MW-503B		MW-503B		MW-503B		MW-503B		
Date		09/03/2013		03/03/2014		09/27/2014		04/29/2015		10/12/2015		04/04/2016		
Field Sample ID		MW-503B-090313		MW-503B-030314		MW-503B-092714		MW-503B-042915		MW-503B-101215		MW-503B-040416		
SDG		680-93870-1		680-99155-1		680-105809-1		680-112094-1&2		680-117780-1		680-123793-1		
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		
Sample Purpose		REG		REG		REG		REG		REG		REG		
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		
Method	Parameter Name	Units	Filtered											
110.2	pH	S. U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	95		81		110		110		130		400
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	25	U	50	U	50	U	50	U	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	95		81		110		110		130		400
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	2800		2400		2500		3600		3600		6300
SM3500-FeD	FERROUS IRON	ug/L	N	7100	HF	4400	HF							
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N											
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	100		84								
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	120		84								
SW6010	ALUMINUM	mg/L	N	7.5		5.1		7.9		8.3		10		23
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	20	U	20	U	20	U	20
SW6010	ARSENIC	mg/L	N	0.0046	U	0.0049	J	0.02	U	0.0099	J	0.0084	J	0.026
SW6010	BARIIUM	mg/L	N	0.042		0.033		0.043		0.074		0.067		0.24
SW6010	BERYLLIUM	mg/L	N	0.0015	J	0.0011	J	0.0015	J	0.0022	J	0.0023	J	0.0093
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
SW6010	CALCIUM	mg/L	N	9.2		6.7		5.9		10		6.8		19
SW6010	CHROMIUM	mg/L	N	0.048		0.038		0.047		0.078		0.085		0.27
SW6010	COBALT	mg/L	N	0.00095	U	0.01	U	0.01	U	0.01	U	0.01	U	0.0013
SW6010	COPPER	mg/L	N	0.0023	J	0.02	U	0.02	U	0.02	U	0.02	U	0.014
SW6010	IRON	mg/L	N	7.7		4.9		4.2		6.9		4.7		10
SW6010	LEAD	mg/L	N	0.004	U	0.0048	J	0.01	U	0.0063	J	0.0069	J	0.004
SW6010	MAGNESIUM	mg/L	N	1.8		1.2		1		2.3	B	1.5		3.9
SW6010	MANGANESE	mg/L	N	0.11		0.072		0.06		0.11		0.074		0.15
SW6010	NICKEL	mg/L	N	0.0052	J	0.0041	J	0.0047	J	0.01	J	0.011	J	0.034
SW6010	POTASSIUM	mg/L	N	9.5		6.5		6.4		9.3		6.3		14
SW6010	RESPIRABLE QUARTZ	ug/L	Y	8100		5200		7200		5300		6700		13000
SW6010	SELENIUM	mg/L	N	0.016	J	0.013	J	0.0078	J	0.0097	J	0.02	U	0.012
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01
SW6010	SODIUM	mg/L	N	990		840		800		1300		1100		2300
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025
SW6010	VANADIUM	ug/L	N	89		71		99		130		160		
SW6010	ZINC	ug/L	N	8.7	U	20	U	20	U	20	U	20	U	11
SW7470	MERCURY	ug/L	N	4.8		0.83		7.7		5.5		8.1		51
SW7470	MERCURY	ug/L	Y											
SW9034	SULFIDE	mg/L	N	10	U	10	U							
SW9038	SULFATE	mg/L	N	530		420								
SW9040	pH	S. U.	N	5.86	H	5.76	H	5.94	H	6.11	H	6.41	H	6.88
SW9056	CHLORIDE	mg/L	N											
SW9056	SULFATE	mg/L	N											
SW9251	CHLORIDE	mg/L	N	1400		1100								

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

Qualifiers:

- U Indicates the analyte was analyzed for but not detected.
- J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-504A		MW-504A		MW-504A		MW-504A		MW-504A		MW-504A		
Date		08/29/2013		02/25/2014		09/23/2014		04/30/2015		10/14/2015		04/05/2016		
Field Sample ID		MW-504A-082913		MW 504 A-022514		MW-504A-092314		MW-504A-043015		MW-504A-101415		MW-504A-040516		
SDG		680-93799-1		680-98941-1		680-105604-2		680-112094-1&2		680-117911-1		680-123793-1		
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		
Sample Purpose		REG		REG		REG		REG		REG		REG		
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		
Method	Parameter Name	Units	Filtered											
110.2	pH	S. U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1200		1800		1800		2300		1700		2300
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	50	U	50	U	50	U	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	1200		1800		1800		2300		1700		2300
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	7700		7000		7700		6700		7800		5800
SM3500-FeD	FERROUS IRON	ug/L	N	16000	HF	8600	HF							
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N											
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	700		610								
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	650		620								
SW6010	ALUMINUM	mg/L	N	46		62		72		45		51		30
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	20	U	20	U	20	U	20
SW6010	ARSENIC	mg/L	N	0.011	J	0.029		0.0094	J	0.043		0.031		0.014
SW6010	BARIUM	mg/L	N	0.1		0.48		0.46		0.75		0.53		0.2
SW6010	BERYLLIUM	mg/L	N	0.0025	J	0.0043		0.0041		0.005		0.004		0.0021
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005
SW6010	CALCIUM	mg/L	N	16		19		18		20		13		7.4
SW6010	CHROMIUM	mg/L	N	0.25		0.61		0.28		0.56		0.55		0.32
SW6010	COBALT	mg/L	N	0.00095	U	0.0036	J	0.01	U	0.0033	J	0.0032	J	0.0012
SW6010	COPPER	mg/L	N	0.0019	U	0.026		0.02	U	0.017	J	0.025		0.014
SW6010	IRON	mg/L	N	6.9		7.7		5.2		4.1		3.9		2.2
SW6010	LEAD	mg/L	N	0.0041	J	0.043		0.01	U	0.026		0.037		0.022
SW6010	MAGNESIUM	mg/L	N	4.4		3.8		2.5		3	B	1.8		1.7
SW6010	MANGANESE	mg/L	N	0.084		0.14		0.12		0.11		0.079		0.047
SW6010	NICKEL	mg/L	N	0.012	J	0.051		0.013	J	0.063		0.051		0.024
SW6010	POTASSIUM	mg/L	N	5.5		5.6		4.8		5.2		4.4		5
SW6010	RESPIRABLE QUARTZ	ug/L	Y	49000		61000		54000		64000		74000		62000
SW6010	SELENIUM	mg/L	N	0.012	J	0.029		0.016	J	0.019	J	0.016	J	0.014
SW6010	SILVER	mg/L	N	0.0031	J	0.01	U	0.01	U	0.01	U	0.01	U	0.01
SW6010	SODIUM	mg/L	N	1700		1800		2100		2800		2700		1900
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025
SW6010	VANADIUM	ug/L	N	590		1000		890		860		910		
SW6010	ZINC	ug/L	N	13	J	28		13	J	19	J,B	23		11
SW7470	MERCURY	ug/L	N	66		32		75		29		40		91
SW7470	MERCURY	ug/L	Y											
SW9034	SULFIDE	mg/L	N	10	U	10	U							
SW9038	SULFATE	mg/L	N	250	U	130								
SW9040	pH	S. U.	N	7.55	H	6.31	H	6.86	H	6.56	H	6.77	H	7.08
SW9056	CHLORIDE	mg/L	N											
SW9056	SULFATE	mg/L	N											
SW9251	CHLORIDE	mg/L	N	1700		1500								

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

Qualifiers:

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-504B		MW-504B		MW-504B		MW-504B		MW-504B		MW-504B	
Date		08/29/2013		12/11/2013		02/25/2014		09/23/2014		04/30/2015		04/30/2015	
Field Sample ID		MW-504B-082913		MW 504B-121113		MW 504 B-022514		MW-504B-092314		MW-504B-043015		MW-504B-D-043015	
SDG		680-93799-1		680-97103-1		680-98941-1		680-105604-2		680-112094-1&2		680-112094-1&2	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		FD	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	490		3700		3200		3500		3600	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	1200		50	U	50	U	50	U	50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	1800		3700		3200		3500		3600	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	11000		6700		6200		6500		4500	
SM3500-FeD	FERROUS IRON	ug/L	N	4500	HF	11000	HF						
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	440		190							
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	340		200							
SW6010	ALUMINUM	mg/L	N	1.5		0.78		0.63		0.44		0.33	
SW6010	ANTIMONY	ug/L	N	27	U	20	U	20	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.14		0.0066	J	0.01	J	0.0048	J	0.02	U
SW6010	BARIIUM	mg/L	N	0.88		0.22		0.17		0.073		0.069	
SW6010	BERYLLIUM	mg/L	N	0.013	J	0.011		0.0081		0.003	J	0.0028	J
SW6010	CADMIUM	mg/L	N	0.01	U	0.005	U	0.005	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	19		11		9.7		7.1		6.7	
SW6010	CHROMIUM	mg/L	N	0.67		0.35		0.19		0.065		0.062	
SW6010	COBALT	mg/L	N	0.0085	J	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	COPPER	mg/L	N	0.031	J	0.0096	J	0.0037	J,B	0.02	U	0.02	U
SW6010	IRON	mg/L	N	3.9		11		12		9.1		8.5	
SW6010	LEAD	mg/L	N	0.034	J	0.0076	J	0.0043	J	0.01	U	0.01	U
SW6010	MAGNESIUM	mg/L	N	0.11	J	7.6		7.4		7.1	B	6.8	B
SW6010	MANGANESE	mg/L	N	0.02	J	0.078		0.072		0.061		0.057	
SW6010	NICKEL	mg/L	N	0.14	J	0.028	J	0.012	J	0.0045	J	0.0037	J
SW6010	POTASSIUM	mg/L	N	0.92	J	4		2.9		2.4		2.2	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	110000		68000		84000		85000		83000	
SW6010	SELENIUM	mg/L	N	0.032	U	0.02	U	0.012	J	0.012	J	0.02	U
SW6010	SILVER	mg/L	N	0.0045	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	2800		4100		3200		3500		3500	
SW6010	THALLIUM	mg/L	N	0.044	U	0.025	U	0.025	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	1600		300		160		57		54	
SW6010	ZINC	ug/L	N	88	J	9.0	J	20	U	20	U	20	U
SW7470	MERCURY	ug/L	N	320		61		7.7		6.0		2.4	
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N	35		40	U						
SW9038	SULFATE	mg/L	N	250	U	5.0	U						
SW9040	pH	S. U.	N	11.0	H	6.64	H	6.86	H	6.93	H	6.91	H
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N	3300		4000							

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-504B		MW-504B		MW-505A		MW-505A		MW-505A		MW-505A		MW-505A	
Date		10/14/2015		04/05/2016		08/29/2013		02/25/2014		09/23/2014		04/30/2015		10/06/2015	
Field Sample ID		MW-504B-101415		MW-504B-040516		MW-505A-082913		MW-505A-022514		MW-505A-092314		MW-505A-043015		MW-505A-10061	
SDG		680-117911-1		680-123793-1		680-93799-1		680-98941-1		680-105604-2		680-112094-1&2		680-117551-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2400		2900		1100		1900		2500		1800	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	25	U	50	U	92		50	U	50	U	50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	2400		2900		1200		1900		2500		1800	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	7200		6300		6900		4700		5400		7300	
SM3500-FeD	FERROUS IRON	ug/L	N					1400	HF	5100	HF				
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y					510		260					
SM5310B	TOTAL ORGANIC CARBON	mg/L	N					410		220					
SW6010	ALUMINUM	mg/L	N	0.1	J	0.24		28		19		7.6		68	
SW6010	ANTIMONY	ug/L	N	20	U	20	U	5.3	U	20	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.02	U	0.02	U	0.015	J	0.017	J	0.0084	J	0.035	
SW6010	BARIUM	mg/L	N	0.074		0.049		0.17		0.25		0.073		1.2	
SW6010	BERYLLIUM	mg/L	N	0.0017	J	0.0018	J	0.0023	J	0.0027	J	0.0011	J	0.0074	
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.002	U	0.005	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	6.9		5.3		12		16		9.9		47	
SW6010	CHROMIUM	mg/L	N	0.038		0.037		0.27		0.32		0.23		0.64	
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.00095	U	0.00095	J	0.0011	J	0.0028	J
SW6010	COPPER	mg/L	N	0.0024	J	0.02	U	0.0031	J	0.0098	J	0.0067	J	0.019	J
SW6010	IRON	mg/L	N	8.8		7.2		1.7		5.1		2.1		19	
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.0052	J	0.012		0.01		0.025	
SW6010	MAGNESIUM	mg/L	N	6.4		5.1		0.7		2.1		1		7.7	B
SW6010	MANGANESE	mg/L	N	0.054		0.048		0.08		0.14		0.078		0.5	
SW6010	NICKEL	mg/L	N	0.04	U	0.04	U	0.014	J	0.024	J	0.014	J	0.07	
SW6010	POTASSIUM	mg/L	N	2.7		2.2		3.4		7.6		4.5		9.7	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	110000		110000		19000		53000		29000		71000	
SW6010	SELENIUM	mg/L	N	0.02	U	0.02	U	0.012	J	0.014	J	0.022		0.016	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.0028	J	0.01	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	3700		2600		1700		1700		1700		2500	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.0088	U	0.025	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	30				570		460		310		910	
SW6010	ZINC	ug/L	N	20	U	20	U	11	J	20	U	20	U	22	B
SW7470	MERCURY	ug/L	N	1.1		1.1	F1	87		37		26		19	
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N					21		10	U				
SW9038	SULFATE	mg/L	N					55		43					
SW9040	pH	S. U.	N	7.19	H	7.15	HF	9.05	H	6.43	H	7.24	H	6.67	H
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N					1700		1400					

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 - H Sample was prepped or analyzed beyond the specified holding time.
 - HF Field parameter with a holding time of 15 minutes.
 - F Duplicate RPD exceeds the control limit.
 - B Compound was found in the blank and sample.

Location ID				MW-505A	MW-505B	MW-505B	MW-505B	MW-505B	MW-505B	
Date				04/05/2016	08/29/2013	02/25/2014	09/23/2014	04/30/2015		
Field Sample ID				MW-505A-040516	MW-505B-082913	MW-505B-022514	MW-505B-092314	MW-505B-043015		
SDG				680-123793-1	680-93799-1	680-98941-1	680-105604-2	680-112094-1&2		
Matrix				WATER	WATER	WATER	WATER	WATER		
Sample Purpose				REG	REG	REG	REG	REG		
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS		
Method	Parameter Name	Units	Filtered							
110.2	pH	S. U.	N							
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2600		1400		7700	6500	3800
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	1200		50	50	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	2600		2600		7700	6500	3800
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	8000		19000		17000	15000	8700
SM3500-FeD	FERROUS IRON	ug/L	N			1200	HF	17000	HF	
SM4500S2-E	SULFIDE	mg/L	N							
SM4500S2-F	SULFIDE	mg/L	N							
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N							
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y			870		550		
SM5310B	TOTAL ORGANIC CARBON	mg/L	N			710		660		
SW6010	ALUMINUM	mg/L	N	67		34		7.7	6.4	5.9
SW6010	ANTIMONY	ug/L	N	20	U	5.3	U	20	20	20
SW6010	ARSENIC	mg/L	N	0.029	U	0.052		0.022	0.043	0.047
SW6010	BARIIUM	mg/L	N	1.1		0.82		0.65	0.53	0.49
SW6010	BERYLLIUM	mg/L	N	0.0066	J	0.013		0.0095	0.0084	0.011
SW6010	CADMIUM	mg/L	N	0.005	U	0.002	U	0.0027	0.005	0.005
SW6010	CALCIUM	mg/L	N	20		12		27	23	22
SW6010	CHROMIUM	mg/L	N	0.56		0.32		0.91	0.73	0.56
SW6010	COBALT	mg/L	N	0.0026	J	0.0014	J	0.0017	0.0024	0.0016
SW6010	COPPER	mg/L	N	0.023	J	0.0042	J	0.028	0.022	0.013
SW6010	IRON	mg/L	N	2.5		0.97		17	13	17
SW6010	LEAD	mg/L	N	0.014	U	0.009	J	0.0085	0.005	0.0092
SW6010	MAGNESIUM	mg/L	N	3.6		0.26	J	12	10	7.2
SW6010	MANGANESE	mg/L	N	0.18		0.015		0.28	0.24	0.21
SW6010	NICKEL	mg/L	N	0.06	J	0.033	J	0.086	0.066	0.06
SW6010	POTASSIUM	mg/L	N	6.5	J	3		11	10	5.6
SW6010	RESPIRABLE QUARTZ	ug/L	Y	84000		48000		63000	77000	82000
SW6010	SELENIUM	mg/L	N	0.015	J	0.007	J	0.02	0.029	0.012
SW6010	SILVER	mg/L	N	0.01	U	0.00089	U	0.01	0.01	0.01
SW6010	SODIUM	mg/L	N	2600	U	4600		8600	8300	6200
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U	0.025	0.025	0.025
SW6010	VANADIUM	ug/L	N			1500		1100	880	700
SW6010	ZINC	ug/L	N	12	J	23		19	18	10
SW7470	MERCURY	ug/L	N	79		53		32	32	14
SW7470	MERCURY	ug/L	Y							
SW9034	SULFIDE	mg/L	N			67		40		
SW9038	SULFATE	mg/L	N			370		50		
SW9040	pH	S. U.	N	6.92	H	9.97	H	6.85	7.05	7.01
SW9056	CHLORIDE	mg/L	N							
SW9056	SULFATE	mg/L	N							
SW9251	CHLORIDE	mg/L	N			6200		7900		

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-505B		MW-505B		MW-507B		MW-507B		MW-507B		MW-507B	
Date		10/06/2015		04/05/2016		09/04/2013		02/28/2014		09/27/2014		04/27/2015	
Field Sample ID		MW-505B-100615		MW-505B-040516		MW-507B-090413		MW-507B-022814		MW-507B-092714		MW-507B-042715	
SDG		680-117551-1		680-123793-1		680-93870-1		680-99043-1		680-105809-1		680-111968-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3500		3500		1200		1500		1600	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	1100		900		780	
SM2320B	ALKALINITY, TOTAL	mg/L	N	3500		3500		2300		2400		2400	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	15000		9600		27000		27000		18000	
SM3500-FeD	FERROUS IRON	ug/L	N					470	HF	810	HF		
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y					500		540			
SM5310B	TOTAL ORGANIC CARBON	mg/L	N					480		530			
SW6010	ALUMINUM	mg/L	N	8.2		29		0.53		0.71		0.95	
SW6010	ANTIMONY	ug/L	N	20	U	20	U	5.3	U	8.4	J	5.3	J
SW6010	ARSENIC	mg/L	N	0.039		0.033		0.0054	J	0.02	U	0.02	U
SW6010	BARIIUM	mg/L	N	0.52		0.97		0.019		0.025		0.029	
SW6010	BERYLLIUM	mg/L	N	0.0097		0.011		0.012		0.018		0.022	
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.002	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	18		15		3.7		4.9		5.5	
SW6010	CHROMIUM	mg/L	N	0.47		0.47		0.23		0.27		0.33	
SW6010	COBALT	mg/L	N	0.0016	J	0.0021	J	0.00095	U	0.0012	J	0.01	U
SW6010	COPPER	mg/L	N	0.017	J	0.02		0.0089	J	0.0088	J	0.012	J
SW6010	IRON	mg/L	N	11		9.6		0.55		0.64		0.8	
SW6010	LEAD	mg/L	N	0.0098	J	0.0086	J	0.004	U	0.01	U	0.01	U
SW6010	MAGNESIUM	mg/L	N	5		4		0.19	J	0.36	J	0.4	J
SW6010	MANGANESE	mg/L	N	0.16		0.22		0.0059	J	0.0088	J	0.011	
SW6010	NICKEL	mg/L	N	0.046		0.052		0.023	J	0.025	J	0.032	J
SW6010	POTASSIUM	mg/L	N	5.1		3.9		9.2		9.4		10	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	100000		99000		38000		22000		110000	
SW6010	SELENIUM	mg/L	N	0.013	J	0.014	J	0.027		0.043		0.0083	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.00089	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	5700		3800		11000		11000		9900	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.0088	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	630				560		640		770	
SW6010	ZINC	ug/L	N	11	J	12	J	10	J	20	U	8.9	J
SW7470	MERCURY	ug/L	N	17		33		1.9		2.2		7.9	4.8
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N					14		10	U		
SW9038	SULFATE	mg/L	N					150		12			
SW9040	pH	S. U.	N	7.77	H	7.23	HF	9.70	H	9.59	H	9.45	H
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N					15000		14000			

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-507B	MW-507B	MW-507B	MW-507B	MW-508B	MW-508B
Date		04/27/2015	10/14/2015	10/14/2015	03/30/2016	09/03/2013	02/28/2014
Field Sample ID		MW-507B-042715	MW-507B-101415	MW-507B-DUP-101415	MW-507B-033016	MW-508B-090313	MW-508B-022814
SDG		680-111968-2	680-117911-1	680-117911-1	680-123652-1	680-93870-1	680-99043-1
Matrix		WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		REG	REG	FD	REG	REG	REG
Sample Type		GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered				
110.2	pH	S. U.	N				
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2000	1800	1700	2700
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	600	510	530	230
SM2320B	ALKALINITY, TOTAL	mg/L	N	2600	2300	2300	2900
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	18000	H	22000	23000
SM3500-FeD	FERROUS IRON	ug/L	N				
SM4500S2-E	SULFIDE	mg/L	N				
SM4500S2-F	SULFIDE	mg/L	N				
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N				
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y				880
SM5310B	TOTAL ORGANIC CARBON	mg/L	N				690
SW6010	ALUMINUM	mg/L	N	1.4	1.2	1.2	1.4
SW6010	ANTIMONY	ug/L	N	20	U	7.4	J
SW6010	ARSENIC	mg/L	N	0.014	J	0.018	J
SW6010	BARIUM	mg/L	N	0.051		0.067	
SW6010	BERYLLIUM	mg/L	N	0.03		0.03	
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	9.8		10	
SW6010	CHROMIUM	mg/L	N	0.34		0.52	
SW6010	COBALT	mg/L	N	0.01	U	0.0016	J
SW6010	COPPER	mg/L	N	0.0048	J	0.019	J
SW6010	IRON	mg/L	N	1.1		1.2	
SW6010	LEAD	mg/L	N	0.01	U	0.01	U
SW6010	MAGNESIUM	mg/L	N	1.4		4.1	
SW6010	MANGANESE	mg/L	N	0.021		0.025	
SW6010	NICKEL	mg/L	N	0.027	J	0.041	
SW6010	POTASSIUM	mg/L	N	8.4		7.6	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	76000		50000	
SW6010	SELENIUM	mg/L	N	0.02		0.017	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	8600		11000	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	920		920	
SW6010	ZINC	ug/L	N	9.8	J	9.2	J
SW7470	MERCURY	ug/L	N			7.7	
SW7470	MERCURY	ug/L	Y			7.9	
SW9034	SULFIDE	mg/L	N				18
SW9038	SULFATE	mg/L	N				100
SW9040	pH	S. U.	N	9.16	H	9.13	H
SW9056	CHLORIDE	mg/L	N				
SW9056	SULFATE	mg/L	N				
SW9251	CHLORIDE	mg/L	N				19000

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HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-508B		MW-508B		MW-508B		MW-508B		MW-508B		MW-508B	
Date		02/28/2014		09/27/2014		04/28/2015		04/28/2015		10/14/2015		03/30/2016	
Field Sample ID		MW-508BDUP-022814		MW-508B-092714		MW-508B-042815		MW-508B-042815		MW-508B-101415		MW-508B-033016	
SDG		680-99043-1		680-105809-1		680-112022-1		680-112022-2		680-117911-1		680-123652-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		FD		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	2000		4400		4400		3600		3900	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	1700		730		500		110		50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	3800		5200		5000		3800		3900	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	42000		29000		21000		32000		28000	
SM3500-FeD	FERROUS IRON	ug/L	N	8100	HF								
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	1100									
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	1100									
SW6010	ALUMINUM	mg/L	N	7.8		5.7		4.8		3		2.7	
SW6010	ANTIMONY	ug/L	N	20	U	20	U	13	J	13	J	5.4	J
SW6010	ARSENIC	mg/L	N	0.052		0.02		0.056		0.036		0.027	
SW6010	BARIIUM	mg/L	N	0.21		0.2		0.22		0.17		0.14	
SW6010	BERYLLIUM	mg/L	N	0.057		0.041		0.047		0.03		0.02	
SW6010	CADMIUM	mg/L	N	0.0021	J	0.005	U	0.01	U	0.0012	J	0.0016	J
SW6010	CALCIUM	mg/L	N	10		25		31		44		77	
SW6010	CHROMIUM	mg/L	N	2.2		1.6		2.1		1.4		1.4	
SW6010	COBALT	mg/L	N	0.0075	J	0.004	J	0.0065	J	0.0045	J	0.0028	J
SW6010	COPPER	mg/L	N	0.13		0.084		0.088		0.067		0.053	
SW6010	IRON	mg/L	N	2.4		2.1		2.6		1.9		4.8	
SW6010	LEAD	mg/L	N	0.0055	J	0.01	U	0.02	U	0.01	U	0.01	U
SW6010	MAGNESIUM	mg/L	N	0.49	J	4		6.8		8.7		7.7	
SW6010	MANGANESE	mg/L	N	0.035		0.063		0.068		0.12		0.25	
SW6010	NICKEL	mg/L	N	0.3		0.19		0.29		0.16		0.13	
SW6010	POTASSIUM	mg/L	N	43		46		31		27		28	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	11000		110000		150000		77000		100000	
SW6010	SELENIUM	mg/L	N	0.066		0.01	J	0.039	J	0.026		0.037	
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.02	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	13000		13000		11000		13000		9900	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.05	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	4500		3500		4000		2600			
SW6010	ZINC	ug/L	N	36		30		30	J	21		16	J
SW7470	MERCURY	ug/L	N	35		69		6.3		46		41	
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N	61									
SW9038	SULFATE	mg/L	N	1300									
SW9040	pH	S. U.	N	9.70	H	8.83	H	8.72	H	8.05	H	7.24	HF
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N	18000									

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 - HF Field parameter with a holding time of 15 minutes.
 - F Duplicate RPD exceeds the control limit.
 - B Compound was found in the blank and sample.

Location ID				MW-510B		MW-510B		MW-510B		MW-510B		MW-510B		MW-510B	
Date				09/03/2013		02/27/2014		09/30/2014		04/29/2015		10/20/2015		04/18/2016	
Field Sample ID				MW-510B-090313		MW-510B-022714		MW-510B-093014		MW-510B-042915		MW-510B-102015		MW-510B-041816	
SDG				680-93870-1		680-99043-1		680-105809-1		680-112022-1&2		680-118152-1		680-124423-1	
Matrix				WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose				REG		REG		REG		REG		REG		REG	
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1900		2600		3600		5600				6600	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	2500		2100		1300		12000				50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	4500		4700		4900		18000				6600	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	23000		25000		21000		37000				21000	
SM3500-FeD	FERROUS IRON	ug/L	N	5500	HF	3200	HF								
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	970		1100									
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	780		1100									
SW6010	ALUMINUM	mg/L	N	9.2		1.7		4.6		2.6				1.4	
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	20	U	100	U			20	U
SW6010	ARSENIC	mg/L	N	0.14		0.074		0.05		0.89				0.0087	J
SW6010	BARIUM	mg/L	N	0.32		0.2		0.38		0.11				0.13	
SW6010	BERYLLIUM	mg/L	N	0.043		0.014		0.037		0.014	J			0.012	
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.025	U			0.005	U
SW6010	CALCIUM	mg/L	N	25		21		37		9				46	
SW6010	CHROMIUM	mg/L	N	0.71		1		0.96		2				0.79	
SW6010	COBALT	mg/L	N	0.0023	J	0.0037	J	0.0023	J	0.05	U			0.01	U
SW6010	COPPER	mg/L	N	0.038		0.053		0.033		0.064	J			0.022	
SW6010	IRON	mg/L	N	6.1		2		3.7		13				4.2	
SW6010	LEAD	mg/L	N	0.014		0.0045	J	0.01	U	0.05	U			0.0042	J
SW6010	MAGNESIUM	mg/L	N	2.9		6.4		24		2.8				68	
SW6010	MANGANESE	mg/L	N	0.2		0.038		0.16		0.018	J			0.16	
SW6010	NICKEL	mg/L	N	0.091		0.15		0.1		0.31				0.057	
SW6010	POTASSIUM	mg/L	N	32		17		34		25				30	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	1600000		380000		250000		7700000				120000	
SW6010	SELENIUM	mg/L	N	0.033		0.036		0.02	U	0.099	J			0.015	J
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.05	U			0.01	U
SW6010	SODIUM	mg/L	N	9000		5500		8500		17000				8600	
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.13	U			0.025	U
SW6010	VANADIUM	ug/L	N	2100		2100		2500		5700					
SW6010	ZINC	ug/L	N	30		29		25		100	U			20	U
SW7470	MERCURY	ug/L	N	97		72		130		40				18	
SW7470	MERCURY	ug/L	Y									96			
SW9034	SULFIDE	mg/L	N	10	U	10	U								
SW9038	SULFATE	mg/L	N	50	U	250	U								
SW9040	pH	S. U.	N	10.3	H	9.74	H	9.37	H	10.8				7.62	HF
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N	9500		9000									

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Location ID		MW-511A		MW-511A		MW-511B		MW-511B		MW-511B		MW-511B			
Date		09/04/2013		03/04/2014		09/03/2013		09/03/2013		03/04/2014		09/30/2014			
Field Sample ID		MW-511A-090413		MW-511A-030414		MW-511B-090313		MW-511B2-090313		MW-511B-030414		MW-511B-093014			
SDG		680-93870-1		680-99155-1		680-93870-1		680-93870-1		680-99155-1		680-105809-1			
Matrix		WATER		WATER		WATER		WATER		WATER		WATER			
Sample Purpose		REG		REG		REG		FD		REG		REG			
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS			
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	720		2600		430		410		3400	7100		
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	25	U	3000		2900		2800	550		
SM2320B	ALKALINITY, TOTAL	mg/L	N	750		2700		3700		3700		6200	7600		
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	2400		3900		15000		14000		15000	14000		
SM3500-FeD	FERROUS IRON	ug/L	N	2500	HF	2300	HF	1200	HF	980	HF	410	HF		
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	320		160		120		120		110			
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	240		140		120		120		83			
SW6010	ALUMINUM	mg/L	N	8.8		9.5		0.15	J	0.16	J	0.2	U	0.2	U
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	5.3	U	5.3	U	20	U	5.8	J
SW6010	ARSENIC	mg/L	N	0.014	J	0.01	J	0.11		0.11		0.038		0.02	U
SW6010	BARIIUM	mg/L	N	0.025		0.018		0.092		0.093		0.062		0.17	
SW6010	BERYLLIUM	mg/L	N	0.016		0.0097		0.0016	J	0.0016	J	0.00068	J	0.00041	J
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.002	U	0.002	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	4.3		3.3		5.4		5.4		4.7		18	
SW6010	CHROMIUM	mg/L	N	0.1		0.053		0.07		0.069		0.063		0.033	
SW6010	COBALT	mg/L	N	0.0021	J	0.01	U	0.0036	J	0.0033	J	0.01	U	0.01	U
SW6010	COPPER	mg/L	N	0.0057	J	0.0031	J	0.014	J	0.016	J	0.0058	J	0.02	U
SW6010	IRON	mg/L	N	4		3.1		1.4		1.4		0.61		0.16	
SW6010	LEAD	mg/L	N	0.029		0.011		0.0066	J	0.0074	J	0.01	U	0.01	U
SW6010	MAGNESIUM	mg/L	N	1.8		1.8		0.03	J	0.027	J	0.56		29	
SW6010	MANGANESE	mg/L	N	0.013		0.022		0.0085	J	0.0089	J	0.0029	J	0.023	
SW6010	NICKEL	mg/L	N	0.01	J	0.003	J	0.037	J	0.037	J	0.029	J	0.006	J
SW6010	POTASSIUM	mg/L	N	3.4		9.7		7.7		9		15		23	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	64000		61000		2500000		2500000		820000		170000	
SW6010	SELENIUM	mg/L	N	0.0064	U	0.0088	J,B	0.016	J	0.012	J	0.024	B	0.02	U
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.00089	U	0.00089	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	740		1400		4400		4600		7100		8200	
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.0088	U	0.0088	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	100		80		230		230		240		49	
SW6010	ZINC	ug/L	N	22		12	J	21		21		10	J	20	U
SW7470	MERCURY	ug/L	N	3.9		0.28		160		160		82		31	
SW7470	MERCURY	ug/L	Y	3.5											
SW9034	SULFIDE	mg/L	N	10	U	10	U	10	U	10	U	10	U		
SW9038	SULFATE	mg/L	N	260		50	U	18		19		100			
SW9040	pH	S. U.	N	5.69	H	6.95	H	11.5	H	11.5	H	9.84	H	8.67	H
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N	410		320		6400		6300		6200			

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-511B		MW-511B		MW-511B		MW-511B		MW-512A		MW-512A	
Date		09/30/2014		04/29/2015		10/05/2015		04/04/2016		08/27/2013		02/27/2014	
Field Sample ID		MW-511B-DUP-093014		MW-511B-042915		MW-511B-100515		MW-511B-040416		MW-512A-082713		MW-512A-022714	
SDG		680-105809-1		680-112094-1&2		680-117551-1		680-123793-1		680-93690-1		680-99043-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		FD		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	7100		4200		4900		3200		390	1500
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	540		50	U	50	U	50	U	370	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	7700		4200		4900		3300		780	1500
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	14000		9000		12000		6400		1800	2400
SM3500-FeD	FERROUS IRON	ug/L	N									3400	2400
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y									82	65
SM5310B	TOTAL ORGANIC CARBON	mg/L	N									86	66
SW6010	ALUMINUM	mg/L	N	0.2	U	0.12	J	0.06	J	0.47		7.6	17
SW6010	ANTIMONY	ug/L	N	20	U	20	U	5.7	J	20	U	5.3	20
SW6010	ARSENIC	mg/L	N	0.02	U	0.02	U	0.02	U	0.02	U	0.011	0.015
SW6010	BARIUM	mg/L	N	0.17		0.069		0.1		0.043		0.02	0.043
SW6010	BERYLLIUM	mg/L	N	0.0004	J	0.0017	J	0.00097	J	0.0034	J	0.0053	0.0053
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.0011	J	0.005	U	0.002	0.005
SW6010	CALCIUM	mg/L	N	21		49		38		27		4.9	6.9
SW6010	CHROMIUM	mg/L	N	0.032		0.042		0.042		0.063		0.055	0.093
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.0011	0.0021
SW6010	COPPER	mg/L	N	0.02	U	0.02	U	0.0046	J,B	0.0018	J	0.0019	0.0037
SW6010	IRON	mg/L	N	0.22		7.7		3.6		4.2		5.6	9.5
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.0042	J	0.01	U	0.0065	0.019
SW6010	MAGNESIUM	mg/L	N	31		30	B	30		9.5		1.5	3
SW6010	MANGANESE	mg/L	N	0.039		0.061		0.041		0.036		0.03	0.049
SW6010	NICKEL	mg/L	N	0.0065	J	0.0047	J	0.005	J	0.0093	J	0.006	0.0097
SW6010	POTASSIUM	mg/L	N	23		12		12		7.5		2.1	3.9
SW6010	RESPIRABLE QUARTZ	ug/L	Y	180000		93000		130000		120000		160000	100000
SW6010	SELENIUM	mg/L	N	0.015	J	0.02	U	0.014	J	0.01	J	0.0064	0.0081
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.00089	0.01
SW6010	SODIUM	mg/L	N	7800		3900		4900		2400		500	840
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.0088	0.025
SW6010	VANADIUM	ug/L	N	52		19		34				71	85
SW6010	ZINC	ug/L	N	20	U	20	U	20	U	20	U	29	42
SW7470	MERCURY	ug/L	N	30		1.9		12		3.0		0.80	0.20
SW7470	MERCURY	ug/L	Y									0.63	0.095
SW9034	SULFIDE	mg/L	N									14	10
SW9038	SULFATE	mg/L	N										22
SW9040	pH	S. U.	N	8.65	H	7.10	H	7.79	H	7.18	HF	10.2	8.62
SW9056	CHLORIDE	mg/L	N									120	
SW9056	SULFATE	mg/L	N									44	
SW9251	CHLORIDE	mg/L	N										110

Analytical Laboratory: TestAmerica Savannah

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-512B		MW-512B		MW-512B		MW-512B		MW-512B		MW-512B	
Date		08/27/2013		02/27/2014		09/26/2014		04/28/2015		10/13/2015		04/04/2016	
Field Sample ID		MW-512B-082713		MW-512B-022714		MW-512B-092614		MW-512B-042815		MW-512B-101315		MW-512B-040416	
SDG		680-93690-1		680-99043-1		680-105809-1		680-112022-1&2		680-117780-1		680-123793-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	300		7400		6300		9700		6200	7500
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	2300		59		1000		50	U	75	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	2800		7500		7300		9700		6300	7500
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	9600		12000		14000		12000		18000	16000
SM3500-FeD	FERROUS IRON	ug/L	N	1300	HF	1400	HF						
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	130		150							
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	140		91							
SW6010	ALUMINUM	mg/L	N	0.25		0.2	U	0.2	U	0.17	J	1	0.076
SW6010	ANTIMONY	ug/L	N	5.3	U	6.5	J	20	U	20	U	20	20
SW6010	ARSENIC	mg/L	N	0.043		0.015	J	0.02	U	0.0057	J	0.02	0.02
SW6010	BARIUM	mg/L	N	0.12		0.12		0.04		0.12		0.089	0.078
SW6010	BERYLLIUM	mg/L	N	0.0018	J	0.0024	J	0.0018	J	0.0034	J	0.0032	0.003
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.005	0.0011
SW6010	CALCIUM	mg/L	N	8.2		46		9.2		52		36	31
SW6010	CHROMIUM	mg/L	N	0.071		0.12		0.17		0.13		0.13	0.098
SW6010	COBALT	mg/L	N	0.0045	J	0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	COPPER	mg/L	N	0.011	J	0.0079	J	0.012	J	0.02	U	0.02	0.02
SW6010	IRON	mg/L	N	1.2		1.6		0.99		7.8		5.4	4.6
SW6010	LEAD	mg/L	N	0.014		0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	MAGNESIUM	mg/L	N	0.014	J	23		5.5		54		52	30
SW6010	MANGANESE	mg/L	N	0.01		0.028		0.0023	J	0.12		0.073	0.076
SW6010	NICKEL	mg/L	N	0.03	J	0.025	J	0.034	J	0.012	J	0.011	0.0066
SW6010	POTASSIUM	mg/L	N	3.2		26		22		32		23	30
SW6010	RESPIRABLE QUARTZ	ug/L	Y	1800000		62000		200000		8300		99000	110000
SW6010	SELENIUM	mg/L	N	0.0064	U	0.026		0.0083	J	0.015	J	0.016	0.016
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	SODIUM	mg/L	N	2000		6200		6100		8500		7600	6800
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	0.025
SW6010	VANADIUM	ug/L	N	160		200		320		96		79	
SW6010	ZINC	ug/L	N	17	J	13	J	17	J	16	J	20	20
SW7470	MERCURY	ug/L	N	85		30		120		17		12	11
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N	10	U	40	U						
SW9038	SULFATE	mg/L	N			6.9							
SW9040	pH	S. U.	N	11.4	H	7.21	H	8.93	H	7.10	H	7.85	7.65
SW9056	CHLORIDE	mg/L	N	3400									
SW9056	SULFATE	mg/L	N	160									
SW9251	CHLORIDE	mg/L	N			5100							

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Location ID		MW-513A		MW-513A		MW-513A		MW-513A		MW-513A		MW-513A	
Date		08/27/2013		02/25/2014		09/24/2014		04/28/2015		10/13/2015		04/04/2016	
Field Sample ID		MW-513A-082713		MW-513A-022514		MW-513A-092414		MW-513A-042815		MW-513A-101315		MW-513A-040416	
SDG		680-93690-1		680-98941-1		680-105604-2		680-112022-1&2		680-117780-1		680-123793-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	750		1200		870		1000		610	1200
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	25	U	50	U	50	U	50	U	50	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	760		1200		870		1000		610	1200
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	3600		3600		3800		4000		4600	3800
SM3500-FeD	FERROUS IRON	ug/L	N	20000	HF	22000	HF						
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	340		300							
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	410		270							
SW6010	ALUMINUM	mg/L	N	56		45		98		100		130	72
SW6010	ANTIMONY	ug/L	N	5.3	U	20	U	20	U	20	U	20	20
SW6010	ARSENIC	mg/L	N	0.038		0.04		0.065		0.092		0.085	0.042
SW6010	BARIUM	mg/L	N	0.23		0.19		0.59		0.47		0.71	0.42
SW6010	BERYLLIUM	mg/L	N	0.0021	J	0.003	J	0.0048		0.0066		0.0057	0.0054
SW6010	CADMIUM	mg/L	N	0.002	U	0.005	U	0.005	U	0.005	U	0.0011	0.005
SW6010	CALCIUM	mg/L	N	4		3.9		5.6		6.5		6.1	4.7
SW6010	CHROMIUM	mg/L	N	0.15		0.17		0.34		0.36		0.41	0.23
SW6010	COBALT	mg/L	N	0.0023	J	0.0035	J	0.0049	J	0.0064	J	0.0061	0.0042
SW6010	COPPER	mg/L	N	0.0098	J	0.021		0.037	B	0.043		0.045	0.025
SW6010	IRON	mg/L	N	32		25		49		55		58	30
SW6010	LEAD	mg/L	N	0.12		0.14		0.17		0.25		0.16	0.091
SW6010	MAGNESIUM	mg/L	N	0.42	J	0.72		1.3		1.9		2.3	1.4
SW6010	MANGANESE	mg/L	N	0.024		0.048		0.047		0.085		0.063	0.077
SW6010	NICKEL	mg/L	N	0.012	J	0.017	J	0.028	J	0.034	J	0.042	0.026
SW6010	POTASSIUM	mg/L	N	1.4		2.4		3.3		4.1		4.7	5.4
SW6010	RESPIRABLE QUARTZ	ug/L	Y	55000		40000		130000		9600		260000	210000
SW6010	SELENIUM	mg/L	N	0.0087	J	0.014	J	0.012	J	0.016	J	0.011	0.02
SW6010	SILVER	mg/L	N	0.00089	U	0.01	U	0.01	U	0.01	U	0.01	0.01
SW6010	SODIUM	mg/L	N	760		960		100	U	930		920	1000
SW6010	THALLIUM	mg/L	N	0.0088	U	0.025	U	0.025	U	0.025	U	0.025	0.025
SW6010	VANADIUM	ug/L	N	350		300		600		540		640	
SW6010	ZINC	ug/L	N	50		42		74		120		110	64
SW7470	MERCURY	ug/L	N	82		32		94		53		74	550
SW7470	MERCURY	ug/L	Y							11		15	29
SW9034	SULFIDE	mg/L	N	11		10	U						
SW9038	SULFATE	mg/L	N			47							
SW9040	pH	S. U.	N	7.54	H	6.31	H	6.63	H	6.18	H	6.71	6.57
SW9056	CHLORIDE	mg/L	N	510									
SW9056	SULFATE	mg/L	N	39									
SW9251	CHLORIDE	mg/L	N			640							

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-513B		MW-513B		MW-513B		MW-513B		MW-513B		MW-513B		
Date		08/27/2013		08/27/2013		02/25/2014		09/24/2014		09/24/2014		04/28/2015		
Field Sample ID		MW-513B-082713		MW-513B2-082713		MW-513B-022514		MW-513B-092414		MW-513B-DUP-092414		MW-513B-042815		
SDG		680-93690-1		680-93690-1		680-98941-1		680-105604-2		680-105604-2		680-112022-1&2		
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		
Sample Purpose		REG		FD		REG		REG		FD		REG		
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		
Method	Parameter Name	Units	Filtered											
110.2	pH	S. U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	380		380		4900		2100		2000		2100
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	1600		1600		50	U	740		1200		5100
SM2320B	ALKALINITY, TOTAL	mg/L	N	2100		2100		4900		2900		3200		7300
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	6700		6900		11000		6800		7000		15000
SM3500-FeD	FERROUS IRON	ug/L	N	6600	HF	6700	HF	17000	HF					
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N											
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	250		250		220						
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	250		250		210						
SW6010	ALUMINUM	mg/L	N	9.1		11		3.1		1.4		3.2		0.84
SW6010	ANTIMONY	ug/L	N	5.3	U	5.3	U	20	U	20	U	20	U	20
SW6010	ARSENIC	mg/L	N	0.082		0.086		0.019	J	0.053		0.081		0.2
SW6010	BARIIUM	mg/L	N	0.36		0.38		0.22		0.14		0.18		0.06
SW6010	BERYLLIUM	mg/L	N	0.012		0.013		0.017		0.012		0.012		0.0026
SW6010	CADMIUM	mg/L	N	0.002	U	0.002	U	0.005	U	0.005	U	0.005	U	0.005
SW6010	CALCIUM	mg/L	N	16		17		22		19		17		5.3
SW6010	CHROMIUM	mg/L	N	0.25		0.28		0.27		0.086		0.16		0.11
SW6010	COBALT	mg/L	N	0.012		0.014		0.0021	J	0.01	U	0.0033	J	0.0011
SW6010	COPPER	mg/L	N	0.029		0.036		0.019	J	0.0019	J,B	0.015	J,B	0.0094
SW6010	IRON	mg/L	N	10		12		19		5.5		7		6.9
SW6010	LEAD	mg/L	N	0.057		0.059		0.017		0.0067	J	0.021		0.0049
SW6010	MAGNESIUM	mg/L	N	0.99		1.1		7.2		1.3		1.2		0.43
SW6010	MANGANESE	mg/L	N	0.13		0.13		0.35		0.14		0.13		0.029
SW6010	NICKEL	mg/L	N	0.064		0.069		0.041		0.013	J	0.035	J	0.054
SW6010	POTASSIUM	mg/L	N	4.2		4.6		10		9.8		10		30
SW6010	RESPIRABLE QUARTZ	ug/L	Y	750000		810000		220000		540000		770000		4500000
SW6010	SELENIUM	mg/L	N	0.0083	J	0.0067	J	0.02	U	0.014	J	0.0089	J	0.023
SW6010	SILVER	mg/L	N	0.00089	U	0.00089	U	0.01	U	0.01	U	0.01	U	0.01
SW6010	SODIUM	mg/L	N	1900		2000		2500		2900		3000		1800
SW6010	THALLIUM	mg/L	N	0.0088	U	0.0088	U	0.025	U	0.025	U	0.025	U	0.025
SW6010	VANADIUM	ug/L	N	530		560		450		340		360		340
SW6010	ZINC	ug/L	N	64		71		23		14	J	27		28
SW7470	MERCURY	ug/L	N	12		14		11		78		100		270
SW7470	MERCURY	ug/L	Y											
SW9034	SULFIDE	mg/L	N	11		19		10	U					
SW9038	SULFATE	mg/L	N					5.0	U					
SW9040	pH	S. U.	N	11.1	H	11.1	H	6.94	H	9.50	H	9.82	H	11.1
SW9056	CHLORIDE	mg/L	N	1500		1500								
SW9056	SULFATE	mg/L	N	42		42								
SW9251	CHLORIDE	mg/L	N					1900						

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-513B		MW-513B		MW-513B		MW-514A		MW-514A		MW-514A	
Date		10/13/2015		04/04/2016		05/24/2016		08/28/2013		12/11/2013		02/28/2014	
Field Sample ID		MW-513B-101315		MW-513B-040416		MW-513B-052416		MW-514A-082813		MW-514A-121113		MW-514A-022814	
SDG		680-117780-1		680-123793-1		680-125684-1		680-93690-1		680-97103-1		680-99043-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	250		2600		3400		250			2700
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	3900		11000		11000		990			25 U
SM2320B	ALKALINITY, TOTAL	mg/L	N	5000		14000		14000		1300			2700
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	14000		28000		23000		2500			3700
SM3500-FeD	FERROUS IRON	ug/L	N							760	HF		2800 HF
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y							49			33
SM5310B	TOTAL ORGANIC CARBON	mg/L	N							50			33
SW6010	ALUMINUM	mg/L	N	5	U	0.088	J	1.1		1.1			0.4
SW6010	ANTIMONY	ug/L	N	100	U	20	U	100	U	5.3	U		20 U
SW6010	ARSENIC	mg/L	N	0.22		0.22		0.38		0.013	J		0.0065 J
SW6010	BARIUM	mg/L	N	0.11		0.02		0.075		0.058			0.025
SW6010	BERYLLIUM	mg/L	N	0.00082	J	0.00063	J	0.0013	J	0.00064	J		0.00049 J
SW6010	CADMIUM	mg/L	N	0.025	U	0.0014	J	0.025	U	0.002	U		0.005 U
SW6010	CALCIUM	mg/L	N	3.1		2.4		8.2		2.7			8.8
SW6010	CHROMIUM	mg/L	N	0.13		0.045		0.09		0.012			0.017
SW6010	COBALT	mg/L	N	0.05	U	0.01	U	0.05	U	0.00095	U		0.01 U
SW6010	COPPER	mg/L	N	0.1	U	0.0072	J	0.011	J	0.0035	J		0.0027 J
SW6010	IRON	mg/L	N	6.1		0.51		6.7		1.2			5.9
SW6010	LEAD	mg/L	N	0.05	U	0.01	U	0.05	U	0.012			0.0049 J
SW6010	MAGNESIUM	mg/L	N	2.5	U	0.054	J	2.1	J	0.14	J		2.2
SW6010	MANGANESE	mg/L	N	0.05	U	0.01	U	0.021	J	0.0087	J		0.094
SW6010	NICKEL	mg/L	N	0.084	J	0.025	J	0.047	J	0.0063	J		0.04 U
SW6010	POTASSIUM	mg/L	N	15	J	28		34		1.2			1.8
SW6010	RESPIRABLE QUARTZ	ug/L	Y	6400000		2900000		4500000		610000			100000
SW6010	SELENIUM	mg/L	N	0.1	U	0.019	J	0.1	U	0.0082	J		0.011 J
SW6010	SILVER	mg/L	N	0.0062	J,B	0.01	U	0.05	U	0.0013	J		0.01 U
SW6010	SODIUM	mg/L	N	7400		8100		14000		860			1700
SW6010	THALLIUM	mg/L	N	0.13	U	0.025	U	0.13	U	0.0088	U		0.025 U
SW6010	VANADIUM	ug/L	N	320						44			23
SW6010	ZINC	ug/L	N	100	U	20	U	100	U	10	J		20 U
SW7470	MERCURY	ug/L	N	270		970		460		350		120	47
SW7470	MERCURY	ug/L	Y					510					
SW9034	SULFIDE	mg/L	N							10	U		10 U
SW9038	SULFATE	mg/L	N										7.5
SW9040	pH	S. U.	N	11.9	H	10.8	HF	10.5	HF	11.4	H		7.18 H
SW9056	CHLORIDE	mg/L	N							310	J		
SW9056	SULFATE	mg/L	N							250	U		
SW9251	CHLORIDE	mg/L	N										320

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-514A		MW-514A		MW-514A		MW-514A		MW-514B		MW-514B	
Date		09/24/2014		04/28/2015		10/15/2015		04/18/2016		08/28/2013		02/28/2014	
Field Sample ID		MW-514A-092414		MW-514A-042815		MW-514A-101515		MW-514A-041816		MW-514B-082813		MW-514B-022814	
SDG		680-105703-1		680-112022-1&2		680-117911-1		680-124423-1		680-93690-1		680-99043-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3800		3300	H	3100		3300		240	1800
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	68		50	U,H	25	U	50	U	1100	25
SM2320B	ALKALINITY, TOTAL	mg/L	N	3800		3300	H	3100		3300		1500	1800
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	4500		4200		5400		4400		5300	4200
SM3500-FeD	FERROUS IRON	ug/L	N									2100	HF
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y									35	29
SM5310B	TOTAL ORGANIC CARBON	mg/L	N									35	29
SW6010	ALUMINUM	mg/L	N	0.17	J	0.18	J	0.21		0.15	J	4.4	0.36
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	20	U	5.3	U
SW6010	ARSENIC	mg/L	N	0.02	U	0.02	U	0.02	U	0.02	U	0.042	0.02
SW6010	BARIUM	mg/L	N	0.018		0.017		0.021		0.012		0.23	0.02
SW6010	BERYLLIUM	mg/L	N	0.0003	J	0.00038	J	0.00022	J	0.004	U	0.0023	J
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.005	U	0.002	U
SW6010	CALCIUM	mg/L	N	6.1		8		12		8.7		7.4	12
SW6010	CHROMIUM	mg/L	N	0.0084	J	0.0089	J	0.004	J	0.0058	J	0.045	0.032
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.0064	J
SW6010	COPPER	mg/L	N	0.02	U	0.02	U	0.0026	J	0.02	U	0.011	J
SW6010	IRON	mg/L	N	2.3		16		23		21		5.1	36
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.042	0.01
SW6010	MAGNESIUM	mg/L	N	2.5		6.5		8.2		7.1		0.61	3.7
SW6010	MANGANESE	mg/L	N	0.049		0.22		0.36		0.29		0.039	0.78
SW6010	NICKEL	mg/L	N	0.04	U	0.04	U	0.04	U	0.04	U	0.02	J
SW6010	POTASSIUM	mg/L	N	2.6		1.9		4.3		2.5		7.6	5.5
SW6010	RESPIRABLE QUARTZ	ug/L	Y	88000		100000		62000		90000		960000	150000
SW6010	SELENIUM	mg/L	N	0.013	J	0.0077	J	0.02	U	0.02	U	0.0064	U
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.00089	U
SW6010	SODIUM	mg/L	N	2000		1800		2700		2100		1600	1300
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.0088	U
SW6010	VANADIUM	ug/L	N	11		6.2	J	4.6	J			84	23
SW6010	ZINC	ug/L	N	20	U	20	U	20	U	20	U	39	20
SW7470	MERCURY	ug/L	N	21		3.2		3.9		2.3		40	4.1
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N									10	U
SW9038	SULFATE	mg/L	N										18
SW9040	pH	S. U.	N	8.11	H	6.85	H	7.09	H	6.94	HF	11.3	H
SW9056	CHLORIDE	mg/L	N									1600	
SW9056	SULFATE	mg/L	N									250	U
SW9251	CHLORIDE	mg/L	N										1100

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-514B		MW-514B		MW-514B		MW-514B		MW-514B		MW-515B	
Date		09/24/2014		09/24/2014		04/28/2015		10/15/2015		04/18/2016		09/03/2013	
Field Sample ID		MW-514B-092414		MW-514B-DUP-092414		MW-514B-042815		MW-514B-101515		MW-514B-041816		MW-515B-090313	
SDG		680-105703-1		680-105703-1		680-112022-1&2		680-117911-1		680-124423-1		680-93870-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		FD		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1200		1200		1400		630		1900	950
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	25	U	50	U	50	1600
SM2320B	ALKALINITY, TOTAL	mg/L	N	1200		1200		1400		640		1900	2600
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	3400		3500		3500		3800		4800	12000
SM3500-FeD	FERROUS IRON	ug/L	N										1800
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y										290
SM5310B	TOTAL ORGANIC CARBON	mg/L	N										360
SW6010	ALUMINUM	mg/L	N	3.3		3.4		0.39		1.4		0.24	0.47
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	20	U	20	5.3
SW6010	ARSENIC	mg/L	N	0.021		0.018	J	0.02	U	0.056		0.02	0.048
SW6010	BARIUM	mg/L	N	0.085		0.09		0.024		0.22		0.03	0.067
SW6010	BERYLLIUM	mg/L	N	0.0045		0.0046		0.0017	J	0.007		0.00062	0.0089
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.005	U	0.005	0.002
SW6010	CALCIUM	mg/L	N	9.6		9.7		12		14		9.3	13
SW6010	CHROMIUM	mg/L	N	0.071		0.075		0.043		0.12		0.021	0.27
SW6010	COBALT	mg/L	N	0.0027	J	0.0031	J	0.01	U	0.015		0.01	0.0023
SW6010	COPPER	mg/L	N	0.0079	J	0.0084	J	0.02	U	0.026		0.02	0.018
SW6010	IRON	mg/L	N	21		21		49		12		33	1.7
SW6010	LEAD	mg/L	N	0.019		0.021		0.01	U	0.07		0.01	0.014
SW6010	MAGNESIUM	mg/L	N	3.5		3.5		6.9		1.3		4.8	0.029
SW6010	MANGANESE	mg/L	N	0.34		0.34		0.64		0.14		0.48	0.02
SW6010	NICKEL	mg/L	N	0.011	J	0.012	J	0.04	U	0.041		0.04	0.054
SW6010	POTASSIUM	mg/L	N	6.4		6.6		5.3		3.2		7	8.4
SW6010	RESPIRABLE QUARTZ	ug/L	Y	210000		190000		150000		220000		160000	800000
SW6010	SELENIUM	mg/L	N	0.011	J	0.01	J	0.02	U	0.02	U	0.02	0.0099
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	0.00089
SW6010	SODIUM	mg/L	N	1400		1400		1300		1700		1800	3800
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	0.0088
SW6010	VANADIUM	ug/L	N	58		60		24		110			420
SW6010	ZINC	ug/L	N	39		40		20	U	66		20	18
SW7470	MERCURY	ug/L	N	26		9.3		3.7		98		1.9	30
SW7470	MERCURY	ug/L	Y							53			
SW9034	SULFIDE	mg/L	N										16
SW9038	SULFATE	mg/L	N										65
SW9040	pH	S. U.	N	7.32	H	7.37	H	6.44	H	8.27		6.70	10.3
SW9056	CHLORIDE	mg/L	N										
SW9056	SULFATE	mg/L	N										
SW9251	CHLORIDE	mg/L	N										4900

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-515B		MW-515B		MW-515B		MW-515B		MW-515B		MW-516A		MW-516A	
Date		02/25/2014		09/27/2014		04/21/2015		10/08/2015		04/01/2016		08/28/2013		02/25/2014	
Field Sample ID		MW-515B-022514		MW-515B-092714		MW-515B-042115		MW-515B-100815		MW-515B-040116		MW-516A-082813		MW 516 A-0225	
SDG		680-98941-1		680-105809-1		680-111819-2&3		680-117666-2		680-123695-1		680-93690-1		680-98941-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3300		2800		3900		3400		3700		740	2400
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	280		880		210		380		50		910	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	3600		3700		4100		3700		3700		1700	2400
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	9300		7500		8500		10000		10000		6700	6100
SM3500-FeD	FERROUS IRON	ug/L	N	4500	HF									1900	3000
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	360										210	190
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	310										230	170
SW6010	ALUMINUM	mg/L	N	0.56		0.26		0.38		0.49	J	0.74		0.91	3.1
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	20	U	20	U	5.3	20
SW6010	ARSENIC	mg/L	N	0.039		0.036		0.033		0.032		0.021		0.027	0.034
SW6010	BARIUM	mg/L	N	0.042		0.033		0.043		0.042		0.051		0.087	0.13
SW6010	BERYLLIUM	mg/L	N	0.017		0.012		0.017		0.017		0.023		0.024	0.02
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.002	0.005
SW6010	CALCIUM	mg/L	N	17		11		15		14		17		5.6	20
SW6010	CHROMIUM	mg/L	N	0.31		0.22		0.28		0.24		0.25		0.062	0.15
SW6010	COBALT	mg/L	N	0.01	U	0.0012	J	0.01	U	0.01	U	0.01	U	0.00095	0.01
SW6010	COPPER	mg/L	N	0.018	J	0.0089	J	0.0056	J	0.0028	J	0.006	J	0.0019	0.0038
SW6010	IRON	mg/L	N	3.3		1.6		2.3		2.1		4.5		0.67	2.9
SW6010	LEAD	mg/L	N	0.014		0.0055	J	0.0074	J	0.0046	J	0.01	U	0.0076	0.017
SW6010	MAGNESIUM	mg/L	N	2		0.38	J	6.1		6.2		8.5		0.22	6.5
SW6010	MANGANESE	mg/L	N	0.11		0.034		0.073		0.068		0.16		0.013	0.064
SW6010	NICKEL	mg/L	N	0.049		0.03	J	0.027	J	0.021	J	0.016	J	0.011	0.014
SW6010	POTASSIUM	mg/L	N	11		12		13		10		13		1.4	2.3
SW6010	RESPIRABLE QUARTZ	ug/L	Y	180000		220000		130000		140000		120000		16000	51000
SW6010	SELENIUM	mg/L	N	0.02	U	0.02	U	0.012	J	0.02	U	0.011	J	0.0081	0.013
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.00089	0.01
SW6010	SODIUM	mg/L	N	4200		3900		4200		3800		3400		2400	2300
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.0088	0.025
SW6010	VANADIUM	ug/L	N	420		320		260		230				370	290
SW6010	ZINC	ug/L	N	12	J	20	U	20	U	17	J	20	U	12	12
SW7470	MERCURY	ug/L	N	10		30		10		11		9.5		16	84
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N	10	U									11	10
SW9038	SULFATE	mg/L	N	25	U										42
SW9040	pH	S. U.	N	8.81	H	9.32	H	8.62	H	9.07	H	7.85	HF	10.2	6.44
SW9056	CHLORIDE	mg/L	N											2300	
SW9056	SULFATE	mg/L	N											52	
SW9251	CHLORIDE	mg/L	N	4400											2300

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

Qualifiers:

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J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID				MW-516B	MW-516B	MW-516B	MW-516B	MW-516B	MW-516B	MW-516B				
Date				08/28/2013	02/25/2014	09/26/2014	04/24/2015	10/15/2015	04/04/2016					
Field Sample ID				4	MW-516B-082813	MW 516 B-022514	MW-516B-092614	MW-516B-042415	MW-516B-101515	MW-516B-040416				
SDG				680-93690-1	680-98941-1	680-105809-1	680-111919-1&2	680-117911-1	680-123793-1					
Matrix				WATER	WATER	WATER	WATER	WATER	WATER	WATER				
Sample Purpose				REG	REG	REG	REG	REG	REG	REG				
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS				
Method	Parameter Name	Units	Filtered											
110.2	pH	S. U.	N											
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N		520	960	640	450	H	130		430		
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	U	3700	3300	3200	2800	H	1800		2800		
SM2320B	ALKALINITY, TOTAL	mg/L	N		4400	4500	4100	3500	H	2700		3600		
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N		25000	16000	28000	17000		21000		22000		
SM3500-FeD	FERROUS IRON	ug/L	N	HF	1400	960	HF							
SM4500S2-E	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE	mg/L	N											
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N											
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y		230	240								
SM5310B	TOTAL ORGANIC CARBON	mg/L	N		240	200								
SW6010	ALUMINUM	mg/L	N		0.1	U 0.16	J 0.2	U 0.2	U 0.11	J 0.1		J 0.1		J
SW6010	ANTIMONY	ug/L	N	U	5.3	U 20	U 6.5	J 20	U 20	U 20		U 20		U
SW6010	ARSENIC	mg/L	N		0.056	0.019	J 0.016	J 0.041		0.043		0.03		
SW6010	BARIUM	mg/L	N		0.0043	J 0.01	U 0.01	U 0.0046	J 0.0044	J 0.0044		J 0.0042		J
SW6010	BERYLLIUM	mg/L	N		0.0011	J 0.0011	J 0.00036	J 0.0007	J 0.00069	J 0.00066		J 0.00066		J
SW6010	CADMIUM	mg/L	N	U	0.002	U 0.0022	J 0.005	U 0.005	U 0.005	U 0.0014		U 0.0014		J
SW6010	CALCIUM	mg/L	N		2.8	2.9	3.1	3.8		3.6		2.8		
SW6010	CHROMIUM	mg/L	N		0.19	0.18	0.13	0.22		0.22		0.15		
SW6010	COBALT	mg/L	N	U	0.0011	J 0.01	U 0.01	U 0.01	U 0.01	U 0.01		U 0.01		U
SW6010	COPPER	mg/L	N	J	0.046	0.044	0.022	0.036		0.053		0.034		
SW6010	IRON	mg/L	N		1.2	1.1	1.1	1.5		1.5		1		
SW6010	LEAD	mg/L	N		0.004	U 0.0059	J 0.01	U 0.01	U 0.005	J 0.01		U 0.01		U
SW6010	MAGNESIUM	mg/L	N		0.026	J 0.02	J 0.014	J 0.025	J,B 0.5	U 0.5		U 0.5		U
SW6010	MANGANESE	mg/L	N		0.002	U 0.01	U 0.01	U 0.01	U 0.0011	J 0.001		J 0.001		J
SW6010	NICKEL	mg/L	N	J	0.055	0.053	0.038	J 0.07		0.067		0.043		
SW6010	POTASSIUM	mg/L	N		40	32	61	54		48		50		
SW6010	RESPIRABLE QUARTZ	ug/L	Y		1400000	1400000	1800000	1200000		1500000		1400000		
SW6010	SELENIUM	mg/L	N	J	0.022	0.01	J 0.012	J 0.024		0.023		0.027		
SW6010	SILVER	mg/L	N	U	0.026	0.001	J 0.01	U 0.01	U 0.01	U 0.01		U 0.01		U
SW6010	SODIUM	mg/L	N		9000	8400	8400	8100		11000		7400		
SW6010	THALLIUM	mg/L	N	U	0.0088	U 0.025	U 0.025	U 0.025	U 0.025	U 0.025		U 0.025		U
SW6010	VANADIUM	ug/L	N		900	870	920	1100		1100				
SW6010	ZINC	ug/L	N	J	19	J 26	32	27		28		20		
SW7470	MERCURY	ug/L	N		34	37	64	55		50		160		
SW7470	MERCURY	ug/L	Y											
SW9034	SULFIDE	mg/L	N	U	16	10	U							
SW9038	SULFATE	mg/L	N			430								
SW9040	pH	S. U.	N	H	11.3	H 11.2	H 11.4	H 11.3	H 11.8			11.3		HF
SW9056	CHLORIDE	mg/L	N		13000									
SW9056	SULFATE	mg/L	N		790									
SW9251	CHLORIDE	mg/L	N			11000								

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 5102 LaRoche Avenue, Savannah, GA 31404

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 - H Sample was prepped or analyzed beyond the specified holding time.
 - HF Field parameter with a holding time of 15 minutes.
 - F Duplicate RPD exceeds the control limit.
 - B Compound was found in the blank and sample.

Location ID		MW-516B		MW-517A		MW-517A		MW-517A		MW-517A	
Date		04/04/2016		09/05/2013		12/12/2013		02/25/2014		09/25/2014	
Field Sample ID		MW-516B-DUP-040416		MW-517A-090513		MW 517A-121213		MW-517-A-022514		MW-517A-092514	
SDG		680-123793-1		680-93954-1		680-97103-1		680-98941-1		680-105703-1	
Matrix		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		FD		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered								
110.2	pH	S. U.	N								
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	400		930			1900		1200
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	2900		100			50	U	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	3600		1000			1900		1200
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	17000		3900			4800		210000
SM3500-FeD	FERROUS IRON	ug/L	N			3000	HF		6300	HF	
SM4500S2-E	SULFIDE	mg/L	N								
SM4500S2-F	SULFIDE	mg/L	N								
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N								
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y			200			160		
SM5310B	TOTAL ORGANIC CARBON	mg/L	N			200			140		
SW6010	ALUMINUM	mg/L	N	0.077	J	0.6			2		2.1
SW6010	ANTIMONY	ug/L	N	20	U	5.3	U		20	U	20
SW6010	ARSENIC	mg/L	N	0.032		0.019	J		0.018	J	0.027
SW6010	BARIIUM	mg/L	N	0.0038	J	0.18			0.13		0.18
SW6010	BERYLLIUM	mg/L	N	0.0006	J	0.02			0.0098		0.019
SW6010	CADMIUM	mg/L	N	0.0014	J	0.002	U		0.005	U	0.005
SW6010	CALCIUM	mg/L	N	2.9		12			16		12
SW6010	CHROMIUM	mg/L	N	0.12		0.048			0.12		0.12
SW6010	COBALT	mg/L	N	0.01	U	0.00095	U		0.01	U	0.0011
SW6010	COPPER	mg/L	N	0.027		0.0019	U		0.0019	J	0.0046
SW6010	IRON	mg/L	N	1		2.4			6.7		4.6
SW6010	LEAD	mg/L	N	0.01	U	0.004	U		0.02		0.031
SW6010	MAGNESIUM	mg/L	N	0.5	U	2			5		2.5
SW6010	MANGANESE	mg/L	N	0.01	U	0.03			0.075		0.038
SW6010	NICKEL	mg/L	N	0.036	J	0.0065	J		0.0078	J	0.013
SW6010	POTASSIUM	mg/L	N	52		1.3			2		1.5
SW6010	RESPIRABLE QUARTZ	ug/L	Y	1400000		27000			59000		33000
SW6010	SELENIUM	mg/L	N	0.027		0.0064	U		0.015	J	0.0089
SW6010	SILVER	mg/L	N	0.01	U	0.00089	U		0.01	U	0.01
SW6010	SODIUM	mg/L	N	7600		1700			2000		1700
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U		0.025	U	0.025
SW6010	VANADIUM	ug/L	N			270			170		300
SW6010	ZINC	ug/L	N	18	J	8.7	U		20	U	20
SW7470	MERCURY	ug/L	N	31		73		3.4	36		17
SW7470	MERCURY	ug/L	Y								
SW9034	SULFIDE	mg/L	N			10	U		10	U	
SW9038	SULFATE	mg/L	N			64			26		
SW9040	pH	S. U.	N	11.4	HF	9.11	H		6.38	H	8.15
SW9056	CHLORIDE	mg/L	N								
SW9056	SULFATE	mg/L	N								
SW9251	CHLORIDE	mg/L	N			2200			1900		

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				MW-517A	MW-517A	MW-517A	MW-517B	MW-517B	MW-517B
Date				04/23/2015	10/14/2015	03/29/2016	08/26/2013	08/26/2013	02/25/2014
Field Sample ID				MW-517A-042315	MW-517A-101415	MW-517A-032916	MW-517B-082613	MW-517B2-082613	MW-517-B-022514
SDG				680-111919-1&2	680-117911-1	680-123536-1	680-93690-1	680-93690-1	680-98941-1
Matrix				WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose				REG	REG	REG	REG	FD	REG
Sample Type				GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered						
110.2	pH	S. U.	N						
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	1300	780	1000	1600	1400	5000
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	1500	1800
SM2320B	ALKALINITY, TOTAL	mg/L	N	1300	820	1200	3200	3300	5100
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	4600	4800	350	14000	13000	13000
SM3500-FeD	FERROUS IRON	ug/L	N				2300	HF	2600
SM4500S2-E	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N						
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y				250	B	290
SM5310B	TOTAL ORGANIC CARBON	mg/L	N				260		330
SW6010	ALUMINUM	mg/L	N	2	2.5	1.4	0.1	U	0.11
SW6010	ANTIMONY	ug/L	N	20	U	20	U	5.3	U
SW6010	ARSENIC	mg/L	N	0.024	0.031	0.022	0.038		0.045
SW6010	BARIUM	mg/L	N	0.09	0.2	0.15	0.043		0.042
SW6010	BERYLLIUM	mg/L	N	0.011	0.022	0.017	0.0047		0.0051
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.002	U
SW6010	CALCIUM	mg/L	N	15	11	7	13		13
SW6010	CHROMIUM	mg/L	N	0.077	0.13	0.11	0.16		0.36
SW6010	COBALT	mg/L	N	0.01	U	0.0015	J	0.0012	J
SW6010	COPPER	mg/L	N	0.02	U	0.0066	J	0.0046	J
SW6010	IRON	mg/L	N	8.2	4.7	2	1.3		1.6
SW6010	LEAD	mg/L	N	0.018	0.042	0.038	0.0069	J	0.011
SW6010	MAGNESIUM	mg/L	N	5.3	B	2	1.1		1
SW6010	MANGANESE	mg/L	N	0.082		0.036	0.018		0.03
SW6010	NICKEL	mg/L	N	0.0056	J	0.015	J	0.011	J
SW6010	POTASSIUM	mg/L	N	1.5		1.4	1.1		11
SW6010	RESPIRABLE QUARTZ	ug/L	Y	55000	36000	21000	350000		370000
SW6010	SELENIUM	mg/L	N	0.0069	J	0.02	U	0.012	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.0035	J
SW6010	SODIUM	mg/L	N	1600	1900	1400	5700		5500
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.0088	U
SW6010	VANADIUM	ug/L	N	190	300		680		790
SW6010	ZINC	ug/L	N	20	U	7.7	J	20	U
SW7470	MERCURY	ug/L	N	38	90	62	92		35
SW7470	MERCURY	ug/L	Y						
SW9034	SULFIDE	mg/L	N				26		26
SW9038	SULFATE	mg/L	N						5.0
SW9040	pH	S. U.	N	6.38	H	8.68	H	9.27	HF
SW9056	CHLORIDE	mg/L	N				6100		6000
SW9056	SULFATE	mg/L	N				370		330
SW9251	CHLORIDE	mg/L	N						6900

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-517B		MW-517B		MW-517B		MW-517B		MW-517B		MW-517B			
Date		09/25/2014		09/25/2014		04/23/2015		10/14/2015		10/14/2015		03/29/2016			
Field Sample ID		MW-517B-092514		MW-517B-DUP-092514		MW-517B-042315		MW-517B-101415		MW-517B-DUP-101415		MW-517B-032916			
SDG		680-105703-1		680-105703-1		680-111919-1&2		680-117911-1		680-117911-1		680-123536-1			
Matrix		WATER		WATER		WATER		WATER		WATER		WATER			
Sample Purpose		REG		FD		REG		REG		FD		REG			
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS			
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	5200		5200		4400		3500		3100		3600	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	50	U	50	U	50	U	50	
SM2320B	ALKALINITY, TOTAL	mg/L	N	5200		5200		4400		3500		3100		3700	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	11000		11000		14000		13000		13000		19000	
SM3500-FeD	FERROUS IRON	ug/L	N												
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y												
SM5310B	TOTAL ORGANIC CARBON	mg/L	N												
SW6010	ALUMINUM	mg/L	N	0.2	U	0.2	U	0.11	J	0.12	J	0.14	J	0.18	J
SW6010	ANTIMONY	ug/L	N	20	U	20	U	20	U	20	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.02	U	0.02	U	0.016	J	0.009	J	0.0097	J	0.024	
SW6010	BARIIUM	mg/L	N	0.015		0.015		0.017		0.014		0.015		0.0089	J
SW6010	BERYLLIUM	mg/L	N	0.0038	J	0.0039	J	0.0071		0.005		0.0056		0.0083	
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	22		23		32		21		24		23	
SW6010	CHROMIUM	mg/L	N	0.28		0.28		0.2		0.29		0.33		0.35	
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	COPPER	mg/L	N	0.005	J	0.0046	J	0.02	U	0.0063	J	0.0074	J	0.0076	J
SW6010	IRON	mg/L	N	15		16		25		18		20		17	
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	MAGNESIUM	mg/L	N	23		24		27	B	18		20		17	
SW6010	MANGANESE	mg/L	N	0.22		0.22		0.27		0.21		0.23		0.18	
SW6010	NICKEL	mg/L	N	0.011	J	0.011	J	0.0087	J	0.013	J	0.015	J	0.02	J
SW6010	POTASSIUM	mg/L	N	28		30		22		15		17		17	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	120000		120000		94000		110000		130000		120000	
SW6010	SELENIUM	mg/L	N	0.02		0.024		0.016	J	0.013	J	0.01	J	0.016	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	5900		6100		4800		4800		5900		4000	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	210		210		270		230		260			
SW6010	ZINC	ug/L	N	20	U	20	U	20	U	20	U	20	U	20	U
SW7470	MERCURY	ug/L	N	6.9		4.3		16		13		14		22	
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N												
SW9038	SULFATE	mg/L	N												
SW9040	pH	S. U.	N	7.01	H	7.14	H	6.81	H	7.10	H	7.00	H	6.73	HF
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N												

Analytical Laboratory: TestAmerica Savannah

5102 LaRoche Avenue, Savannah, GA 31404

Qualifiers:

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- J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-517B		MW-518A		MW-518A		MW-518A		MW-518B		MW-518B	
Date		03/29/2016		08/28/2013		08/28/2013		03/03/2014		08/28/2013		12/11/2013	
Field Sample ID		MW-517B-DUP-032916		MW-518A-082813		MW-518A2-082813		MW-518A-030314		MW-518B-082813		MW 518B-121113	
SDG		680-123536-1		680-93690-1		680-93690-1		680-99155-1		680-93690-1		680-97103-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		FD		REG		FD		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3500		4400		4400		2500		800	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	7000		6900		50	U	2100	
SM2320B	ALKALINITY, TOTAL	mg/L	N	3500		11000		11000		2500		3000	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	10000		5900		7200		6500		13000	
SM3500-FeD	FERROUS IRON	ug/L	N			690	HF	860	HF	1100	HF	2300	HF
SM4500S2-E	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE	mg/L	N										
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y			230		230		230		360	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N			240		230		200		380	
SW6010	ALUMINUM	mg/L	N	0.17	J	11		12		9.1		0.28	
SW6010	ANTIMONY	ug/L	N	20	U	5.3	U	5.3	U	20	U	5.3	U
SW6010	ARSENIC	mg/L	N	0.02		0.025		0.03		0.022		0.044	
SW6010	BARIIUM	mg/L	N	0.008	J	0.046		0.046		0.061		0.086	
SW6010	BERYLLIUM	mg/L	N	0.0079		0.017		0.017		0.014		0.013	
SW6010	CADMIUM	mg/L	N	0.005	U	0.002	U	0.002	U	0.005	U	0.002	U
SW6010	CALCIUM	mg/L	N	22		7		7.1		12		15	
SW6010	CHROMIUM	mg/L	N	0.34		0.22		0.22		0.16		0.31	
SW6010	COBALT	mg/L	N	0.01	U	0.0043	J	0.0039	J	0.0019	J	0.0015	J
SW6010	COPPER	mg/L	N	0.0074	J	0.011	J	0.011	J	0.0061	J	0.016	J
SW6010	IRON	mg/L	N	16		0.69		0.64		0.84		1.3	
SW6010	LEAD	mg/L	N	0.01	U	0.024		0.024		0.014		0.0077	J
SW6010	MAGNESIUM	mg/L	N	16		0.16	J	0.16	J	2.6		0.033	J
SW6010	MANGANESE	mg/L	N	0.17		0.025		0.025		0.23		0.021	
SW6010	NICKEL	mg/L	N	0.019	J	0.032	J	0.032	J	0.021	J	0.05	
SW6010	POTASSIUM	mg/L	N	15		2.8		2.8		3.7		5.6	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	120000		15000		15000		25000		370000	
SW6010	SELENIUM	mg/L	N	0.013	J	0.018	J	0.018	J	0.021	B	0.012	J
SW6010	SILVER	mg/L	N	0.01	U	0.0014	J	0.0014	J	0.01	U	0.0017	J
SW6010	SODIUM	mg/L	N	3800		2500		2600		2800		5400	
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U	0.0088	U	0.025	U	0.0088	U
SW6010	VANADIUM	ug/L	N			270		270		240		670	
SW6010	ZINC	ug/L	N	20	U	8.7	U	9.6	J	20	U	12	J
SW7470	MERCURY	ug/L	N	23		16		17		4.7		53	73
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N			17		17		18		28	
SW9038	SULFATE	mg/L	N							100	U		
SW9040	pH	S. U.	N	6.76	HF	10.3	H	10.3	H	7.32	H	10.7	H
SW9056	CHLORIDE	mg/L	N			2400		2300				5800	
SW9056	SULFATE	mg/L	N			49		25				390	
SW9251	CHLORIDE	mg/L	N							2700			

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID				MW-518B		MW-518B		MW-518B		MW-518B		MW-518B		MW-518B	
Date				03/03/2014		09/26/2014		04/23/2015		10/15/2015		04/04/2016		04/04/2016	
Field Sample ID				MW-518B-030314		MW-518B-092614		MW-518B-042315		MW-518B-101515		MW-518B-040416		MW-518B-DUP-040416	
SDG				680-99155-1		680-105703-1		680-111919-1&2		680-117911-1		680-123793-1		680-123793-1	
Matrix				WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose				REG		REG		REG		REG		REG		FD	
Sample Type				GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered												
110.2	pH	S. U.	N												
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	3800		6700		3600		2900		3500		3500	
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	50	U	50	U	50	U	50	U
SM2320B	ALKALINITY, TOTAL	mg/L	N	3800		6700		3700		2900		3500		3500	
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	8500		23000		7100		6600		5500		6200	
SM3500-FeD	FERROUS IRON	ug/L	N	10000	HF										
SM4500S2-E	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE	mg/L	N												
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N												
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	280											
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	210											
SW6010	ALUMINUM	mg/L	N	0.38		0.14	J	0.65		0.66		0.71		0.62	
SW6010	ANTIMONY	ug/L	N	20	U	8.0	J	20	U	20	U	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.031		0.02	U	0.023		0.015	J	0.0079	J	0.0064	J
SW6010	BARIUM	mg/L	N	0.15		0.19		0.12		0.093		0.077		0.07	
SW6010	BERYLLIUM	mg/L	N	0.021		0.0023	J	0.015		0.013		0.0084		0.008	
SW6010	CADMIUM	mg/L	N	0.005	U	0.0027	J	0.005	U	0.005	U	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	35		25		29		19		21		21	
SW6010	CHROMIUM	mg/L	N	0.38		0.23		0.29		0.23		0.19		0.16	
SW6010	COBALT	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	COPPER	mg/L	N	0.0062	J	0.0056	J	0.02	U	0.0049	J	0.0022	J	0.002	J
SW6010	IRON	mg/L	N	9.9		9.3		10		7		8.1		7.7	
SW6010	LEAD	mg/L	N	0.01	U	0.01	U	0.006	J	0.0068	J	0.01	U	0.01	U
SW6010	MAGNESIUM	mg/L	N	15		15		12	B	9.4		10		10	
SW6010	MANGANESE	mg/L	N	0.14		0.2		0.13		0.1		0.097		0.094	
SW6010	NICKEL	mg/L	N	0.025	J	0.0095	J	0.013	J	0.009	J	0.0069	J	0.0056	J
SW6010	POTASSIUM	mg/L	N	6.6		38		5.3		3.7		5.6		5.4	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	75000		88000		100000		130000		130000		130000	
SW6010	SELENIUM	mg/L	N	0.015	J,B	0.031		0.014	J	0.02	U	0.02	U	0.01	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	4500		14000		3000		3800		2700		2600	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	370		280		190		150					
SW6010	ZINC	ug/L	N	20	U	20	U	32		20	U	20	U	20	U
SW7470	MERCURY	ug/L	N	4.8		4.5		13		12		7.4		22	
SW7470	MERCURY	ug/L	Y												
SW9034	SULFIDE	mg/L	N	10	U										
SW9038	SULFATE	mg/L	N	76											
SW9040	pH	S. U.	N	6.64	H	7.11	H	6.83	H	6.98		7.19	HF	7.21	HF
SW9056	CHLORIDE	mg/L	N												
SW9056	SULFATE	mg/L	N												
SW9251	CHLORIDE	mg/L	N	4700											

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-519A	MW-519A	MW-519A	MW-519A	MW-519B	MW-519B
Date		10/02/2012	11/28/2012	08/27/2013	02/24/2014	10/02/2012	11/27/2012
Field Sample ID		MW-519A-100212	MW-519A-112812	MW-519A-082713	MW-519A-022414	MW-519B-100212	MW-519B-112712
SDG		680-83414-1	680-85180-1&2	680-93690-1	680-98941-1	680-83414-1	680-85137-1&2
Matrix		WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		REG	REG	REG	REG	REG	REG
Sample Type		GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS	GW-GWS
Method	Parameter Name	Units	Filtered				
110.2	pH	S. U.	N				
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	820	H	1500	H
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	160	H	100	U,H
SM2320B	ALKALINITY, TOTAL	mg/L	N	1000	H	1600	H
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	5800		5400	
SM3500-FeD	FERROUS IRON	ug/L	N	790		7600	
SM4500S2-E	SULFIDE	mg/L	N				
SM4500S2-F	SULFIDE	mg/L	N			11	
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N	8.3			
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	230		170	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	390		150	
SW6010	ALUMINUM	mg/L	N	1.3		2.5	
SW6010	ANTIMONY	ug/L	N	20	U	20	U
SW6010	ARSENIC	mg/L	N	0.019	J	0.011	J
SW6010	BARIUM	mg/L	N	0.057		0.044	
SW6010	BERYLLIUM	mg/L	N	0.0075		0.011	
SW6010	CADMIUM	mg/L	N	0.005	U	0.005	U
SW6010	CALCIUM	mg/L	N	11		9.1	
SW6010	CHROMIUM	mg/L	N	0.084		0.11	
SW6010	COBALT	mg/L	N	0.01	U	0.01	U
SW6010	COPPER	mg/L	N	0.0042	J	0.02	U
SW6010	IRON	mg/L	N	0.55		6.7	
SW6010	LEAD	mg/L	N	0.014		0.0083	J
SW6010	MAGNESIUM	mg/L	N	0.22	J	4.5	
SW6010	MANGANESE	mg/L	N	0.0064	J	0.078	
SW6010	NICKEL	mg/L	N	0.0093	J	0.0044	J
SW6010	POTASSIUM	mg/L	N	0.95	J	1.5	
SW6010	RESPIRABLE QUARTZ	ug/L	Y	30000		84000	
SW6010	SELENIUM	mg/L	N	0.013	J	0.014	J
SW6010	SILVER	mg/L	N	0.01	U	0.01	U
SW6010	SODIUM	mg/L	N	1600		830	
SW6010	THALLIUM	mg/L	N	0.025	U	0.025	U
SW6010	VANADIUM	ug/L	N	180		160	
SW6010	ZINC	ug/L	N	20	U	20	U
SW7470	MERCURY	ug/L	N	7.9		3.1	
SW7470	MERCURY	ug/L	Y				
SW9034	SULFIDE	mg/L	N			17	
SW9038	SULFATE	mg/L	N				
SW9040	pH	S. U.	N	9.71	H	6.49	
SW9056	CHLORIDE	mg/L	N	2100		1700	
SW9056	SULFATE	mg/L	N	100	U	100	U
SW9251	CHLORIDE	mg/L	N				

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H Sample was prepped or analyzed beyond the specified holding time.

HF Field parameter with a holding time of 15 minutes.

F Duplicate RPD exceeds the control limit.

B Compound was found in the blank and sample.

Location ID		MW-519B		MW-519B		MW-519B		MW-519B		MW-519B		MW-519B	
Date		11/27/2012		02/05/2013		05/15/2013		08/27/2013		02/24/2014		09/25/2014	
Field Sample ID		MW-519B-TOP-112712		MW-519B-MID-020513		MW-519B_051513		MW-519B-082713		MW-519B-022414		MW-519B-092514	
SDG		680-85137-1&2		680-87157-1		680-90380-1		680-93690-1		680-98941-1		680-105703-1	
Matrix		WATER		WATER		WATER		WATER		WATER		WATER	
Sample Purpose		REG		REG		REG		REG		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered										
110.2	pH	S. U.	N										
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	7100	H	620		8100		6000		7500	3900
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	400	H	39		61		78		50	U 50 U
SM2320B	ALKALINITY, TOTAL	mg/L	N	7500	H	660		8200		6100		7500	4000
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	45000		41000		44000		36000		17000	11000
SM3500-FeD	FERROUS IRON	ug/L	N	4000		3300	HF	2600	HF	2800	HF	8000	HF
SM4500S2-E	SULFIDE	mg/L	N					27					
SM4500S2-F	SULFIDE	mg/L	N	35		41							
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N										
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y	550	B	390		350		310		310	
SM5310B	TOTAL ORGANIC CARBON	mg/L	N	630		460		340		350		320	
SW6010	ALUMINUM	mg/L	N	0.2	U	0.1	U	1	U	0.5	U	0.15	J 0.41
SW6010	ANTIMONY	ug/L	N	20	U	25		53	U	27	U	20	U 20 U
SW6010	ARSENIC	mg/L	N	0.13		0.12		0.046	U	0.023	U	0.1	U 0.019 J
SW6010	BARIUM	mg/L	N	0.13		0.16		0.15		0.12		0.2	0.1
SW6010	BERYLLIUM	mg/L	N	0.0025	J	0.0024	J	0.0028	J	0.0033	J	0.0031	J 0.015
SW6010	CADMIUM	mg/L	N	0.0026	J	0.0026	J	0.02	U	0.01	U	0.0038	J 0.005 U
SW6010	CALCIUM	mg/L	N	13		18		14		9.6		23	20
SW6010	CHROMIUM	mg/L	N	0.39		0.44		0.34		0.26		0.33	0.24
SW6010	COBALT	mg/L	N	0.0013	J	0.00095	U	0.0095	U	0.0048	U	0.01	U 0.01 U
SW6010	COPPER	mg/L	N	0.014	J	0.014	J	0.019	U	0.0095	U	0.011	J 0.0042 J
SW6010	IRON	mg/L	N	3.2		2.2		2.6		2.9		9.3	5
SW6010	LEAD	mg/L	N	0.01	U	0.004	U	0.04	U	0.02	U	0.0063	J 0.0061 J
SW6010	MAGNESIUM	mg/L	N	4.2		7.7		10		6.7		13	8.1
SW6010	MANGANESE	mg/L	N	0.074		0.11		0.12		0.082		0.23	0.074
SW6010	NICKEL	mg/L	N	0.041		0.045		0.023	U	0.015	J	0.014	J 0.013 J
SW6010	POTASSIUM	mg/L	N	29		29		33		44		44	7.1
SW6010	RESPIRABLE QUARTZ	ug/L	Y	180000		82000		46000		61000		51000	96000
SW6010	SELENIUM	mg/L	N	0.031		0.04		0.064	U	0.11		0.02	U 0.02
SW6010	SILVER	mg/L	N	0.01	U	0.00089	U	0.0089	U	0.0045	U	0.01	U 0.01 U
SW6010	SODIUM	mg/L	N	8300		16000		16000		17000		14000	3700
SW6010	THALLIUM	mg/L	N	0.025	U	0.0088	U	0.088	U	0.044	U	0.025	U 0.025 U
SW6010	VANADIUM	ug/L	N	1100		1100		470		540		420	190
SW6010	ZINC	ug/L	N	14	J	23		87	U	44	U	20	U 20 U
SW7470	MERCURY	ug/L	N	89		68		28		31		15	7.7
SW7470	MERCURY	ug/L	Y										
SW9034	SULFIDE	mg/L	N							20	U	40	U
SW9038	SULFATE	mg/L	N									1200	
SW9040	pH	S. U.	N	8.26	H	8.22		8.34	H	7.66	H	6.87	H 7.17 H
SW9056	CHLORIDE	mg/L	N	25000		21000		20000		19000			
SW9056	SULFATE	mg/L	N	1300		1400		1200		1300			
SW9251	CHLORIDE	mg/L	N									16000	

Analytical Laboratory: TestAmerica Savannah

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- H Sample was prepped or analyzed beyond the specified holding time.
- HF Field parameter with a holding time of 15 minutes.
- F Duplicate RPD exceeds the control limit.
- B Compound was found in the blank and sample.

Laboratory Analytical Data

Location ID		MW-519B		MW-519B		MW-519B		MW-519B	
Date		04/21/2015		04/21/2015		10/08/2015		04/01/2016	
Field Sample ID		MW-519B-042115		MW-519B-D-042115		MW-519B-100815		MW-519B-040116	
SDG		680-111819-2&3		680-111819-2&3		680-117666-2		680-123695-1	
Matrix		WATER		WATER		WATER		WATER	
Sample Purpose		REG		FD		REG		REG	
Sample Type		GW-GWS		GW-GWS		GW-GWS		GW-GWS	
Method	Parameter Name	Units	Filtered						
110.2	pH	S. U.	N						
SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	mg/L	N	6700		6500		5400	5400
SM2320B	ALKALINITY, CARBONATE (AS CaCO3)	mg/L	N	50	U	50	U	50	50
SM2320B	ALKALINITY, TOTAL	mg/L	N	6700		6500		5400	5400
SM2540C	TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	mg/L	N	24000		23000		27000	24000
SM3500-FeD	FERROUS IRON	ug/L	N						
SM4500S2-E	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE	mg/L	N						
SM4500S2-F	SULFIDE, DISSOLVED	mg/L	N						
SM5310B	DISSOLVED ORGANIC CARBON	mg/L	Y						
SM5310B	TOTAL ORGANIC CARBON	mg/L	N						
SW6010	ALUMINUM	mg/L	N	0.4	U	0.38	J	1	0.28
SW6010	ANTIMONY	ug/L	N	40	U	40	U	20	20
SW6010	ARSENIC	mg/L	N	0.04	U	0.04	U	0.02	0.02
SW6010	BARIIUM	mg/L	N	0.26		0.24		0.17	0.14
SW6010	BERYLLIUM	mg/L	N	0.0019	J	0.0018	J	0.0016	0.0014
SW6010	CADMIUM	mg/L	N	0.01	U	0.01	U	0.005	0.0018
SW6010	CALCIUM	mg/L	N	40		37		30	29
SW6010	CHROMIUM	mg/L	N	0.17		0.16		0.17	0.092
SW6010	COBALT	mg/L	N	0.02	U	0.02	U	0.01	0.01
SW6010	COPPER	mg/L	N	0.04	U	0.04	U	0.02	0.002
SW6010	IRON	mg/L	N	14		14		13	11
SW6010	LEAD	mg/L	N	0.02	U	0.02	U	0.01	0.01
SW6010	MAGNESIUM	mg/L	N	25		23		21	18
SW6010	MANGANESE	mg/L	N	0.29		0.27		0.24	0.2
SW6010	NICKEL	mg/L	N	0.01	J	0.0079	J	0.0054	0.0052
SW6010	POTASSIUM	mg/L	N	59		53		32	50
SW6010	RESPIRABLE QUARTZ	ug/L	Y	90000		89000		96000	99000
SW6010	SELENIUM	mg/L	N	0.027	J	0.03	J	0.02	0.017
SW6010	SILVER	mg/L	N	0.02	U	0.02	U	0.01	0.01
SW6010	SODIUM	mg/L	N	9500		12000		12000	11000
SW6010	THALLIUM	mg/L	N	0.05	U	0.05	U	0.025	0.025
SW6010	VANADIUM	ug/L	N	170		160		150	
SW6010	ZINC	ug/L	N	40	U	40	U	20	20
SW7470	MERCURY	ug/L	N	4.1		5.2		2.9	3.1
SW7470	MERCURY	ug/L	Y						
SW9034	SULFIDE	mg/L	N						
SW9038	SULFATE	mg/L	N						
SW9040	pH	S. U.	N	6.95	H	6.99	H	7.78	7.11
SW9056	CHLORIDE	mg/L	N						
SW9056	SULFATE	mg/L	N						
SW9251	CHLORIDE	mg/L	N						

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Appendix E:

Sparging Flow Rates and Masses

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-6 Event 1	5/12/2016 9:10	5/12/2016	9:10	33	35	91	0	0.0			0
	5/12/2016 9:56	5/12/2016	9:56	31	32	95	5.5	10.8	248.1	28.38	28.4
	5/12/2016 9:57	5/12/2016	9:57	36	36.5	95	10	20.7	15.7	1.80	30.2
	5/12/2016 11:40	5/12/2016	11:40	36	35	101	12	24.7	2334.7	267.09	297.3
	5/12/2016 13:35	5/12/2016	13:35	36	35	93	13.5	28.0	3025.7	346.14	643.4
	5/12/2016 14:27	5/12/2016	14:27	36	34.5	98	14	28.9	1477.1	168.98	812.4
	5/12/2016 16:09	5/12/2016	16:09	35.5	34	96	14	28.8	2938.6	336.18	1148.6
	5/12/2016 17:58	5/12/2016	17:58	35.5	33.5	92	14.5	29.9	3197.4	365.78	1514.3
	5/13/2016 8:00	5/13/2016	8:00	33.5	30.5	82	18.5	37.7	28473.7	3257.39	4771.7
	5/13/2016 8:03	5/13/2016	8:03		23.5				113.2	12.95	4784.7
Total CO ₂ Mass (lbs):											4784.7

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
<u>SW-14 Event 1</u>	5/11/2016 8:24	5/11/2016	8:24	31	32	90	0	0.0				0
	5/11/2016 9:47	5/11/2016	9:47	29.5	30	90	4.5	8.7	361.8	41.39	41.4	
	5/11/2016 9:50	5/11/2016	9:50	35	36	90	7	14.4	34.7	3.97	45.4	
	5/11/2016 12:05	5/11/2016	12:05	36	35	100	10	20.6	2360.0	269.99	315.3	
	5/11/2016 12:07	5/11/2016	12:07	37	36	100	12	24.9	45.5	5.21	320.5	
	5/11/2016 14:07	5/11/2016	14:07	37	36	96	12	25.0	2997.6	342.92	663.5	
	5/11/2016 15:49	5/11/2016	15:49	37	36	93	12	25.1	2556.3	292.44	955.9	
	5/11/2016 17:33	5/11/2016	17:33	37	35	90	13	27.3	2722.8	311.49	1267.4	
	5/11/2016 17:34	5/11/2016	17:34		26.5					27.3	3.12	1270.5
<u>SW-14 Event 2</u>	5/13/2016 8:08	5/13/2016	8:08	33.5	34.5	82	0	0.0				1270.5
	5/13/2016 8:33	5/13/2016	8:33	32	33	82	<2	0.0	0.0	0.00	1270.5	
	5/13/2016 8:34	5/13/2016	8:34	35	36	82	4	8.3	4.1	0.47	1271.0	
	5/13/2016 10:10	5/13/2016	10:10	35	35.5	91	7	14.4	1087.8	124.44	1395.4	
	5/13/2016 11:10	5/13/2016	11:10	35	35	97	8	16.3	921.5	105.41	1500.8	
	5/13/2016 12:54	5/13/2016	12:54	34	34	96	10	20.2	1901.7	217.56	1718.4	
	5/13/2016 13:23	5/13/2016	13:23	36.5	36	97	12.5	25.9	669.2	76.55	1794.9	
	5/13/2016 14:07	5/13/2016	14:07	37	36	100	13	27.0	1164.4	133.21	1928.2	
	5/13/2016 15:15	5/13/2016	15:15	37	36	101	13	27.0	1835.9	210.03	2138.2	
	5/13/2016 16:11	5/13/2016	16:11	36.5	35	101	14	28.9	1565.4	179.08	2317.3	
	5/13/2016 17:55	5/13/2016	17:55	36.5	34.5	102	14	28.9	3006.2	343.91	2661.2	
	5/13/2016 17:56	5/13/2016	17:56		25.5					28.9	3.31	2664.5
	<u>SW-14 Event 3</u>	5/16/2016 8:07	5/16/2016	8:07	34.5	36	80	0	0.0			
5/16/2016 8:18		5/16/2016	8:18	33	34	80	4	8.1	44.7	5.12	2669.6	
5/16/2016 8:19		5/16/2016	8:19	35.5	36	80	6	12.5	10.3	1.18	2670.8	
5/16/2016 9:32		5/16/2016	9:32	35.5	36	88	8	16.6	1061.3	121.41	2792.2	
5/16/2016 11:23		5/16/2016	11:23	35	35	95	8	16.4	1827.6	209.08	3001.3	
5/16/2016 12:08		5/16/2016	12:08	35	35	95	8.5	17.4	759.6	86.90	3088.2	
5/16/2016 13:25		5/16/2016	13:25	34.5	34.5	90	10	20.5	1457.0	166.68	3254.8	
5/16/2016 13:28		5/16/2016	13:28	36	36	90	11	22.8	64.9	7.43	3262.3	
5/16/2016 14:24		5/16/2016	14:24	36.5	36	92	12	25.0	1339.5	153.24	3415.5	
5/16/2016 15:28		5/16/2016	15:28	36.5	36	92	12	25.0	1599.8	183.01	3598.5	
5/16/2016 16:37		5/16/2016	16:37	36	35	92	12	24.9	1720.5	196.82	3795.4	
5/16/2016 17:56		5/16/2016	17:56	36	35	92	12	24.9	1964.9	224.79	4020.1	
5/16/2016 17:57	5/16/2016	17:57		26					24.9	2.85	4023.0	
<u>SW-14 Event 4</u>	5/17/2016 7:30	5/17/2016	7:30	33	34	80	8	16.3				4023.0
	5/17/2016 7:40	5/17/2016	7:40	33	32.5	80	10	20.3	182.9	20.93	4043.9	
	5/17/2016 7:41	5/17/2016	7:41	36	36	80	12.5	26.2	23.3	2.66	4046.6	
	5/17/2016 9:18	5/17/2016	9:18	36.5	35	84	14	29.4	2696.1	308.44	4355.0	
	5/17/2016 10:34	5/17/2016	10:34	36.5	35	87	14	29.3	2230.0	255.12	4610.1	
	5/17/2016 10:56	5/17/2016	10:56	36.5	35	87	14	29.3	644.6	73.74	4683.9	
	5/17/2016 10:58	5/17/2016	10:58		26					58.6	6.70	4690.6
	Total CO ₂ Mass (lbs):											4690.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
<u>SW-18 Event 1</u>	5/11/2016 8:37	5/11/2016	8:37	34	34.5	87	0	0.0			0
	5/11/2016 9:59	5/11/2016	9:59	31	31	86	12	23.7	973.0	111.31	111.3
	5/11/2016 10:00	5/11/2016	10:00	42	38	86	24	53.0	38.3	4.39	115.7
	5/11/2016 12:18	5/11/2016	12:18	38	33.5	84	24.5	52.2	7254.2	829.88	945.6
	5/11/2016 14:37	5/11/2016	14:37	37	32.5	84	25.5	53.8	7364.8	842.53	1788.1
	5/11/2016 16:04	5/11/2016	16:04	36.5	32	84	25.5	53.5	4667.9	534.01	2322.1
	5/11/2016 17:42	5/11/2016	17:42	40	33	82	30	65.2	5819.4	665.74	2987.9
	5/11/2016 17:44	5/11/2016	17:44		26				130.5	14.93	3002.8
<u>SW-18 Event 2</u>	5/13/2016 8:18	5/13/2016	8:18	34	35	81	6	12.3			3002.8
	5/13/2016 8:39	5/13/2016	8:39	31.5	30	81	16	32.0	464.9	53.19	3056.0
	5/13/2016 8:40	5/13/2016	8:40	38	34.5	81	24	51.3	41.6	4.76	3060.7
	5/13/2016 9:56	5/13/2016	9:56	37	32	86	26	54.7	4028.0	460.81	3521.5
	5/13/2016 9:57	5/13/2016	9:57	40	34	86	30	65.0	59.9	6.85	3528.4
	5/13/2016 11:21	5/13/2016	11:21	38.5	32.5	87	30	64.0	5418.5	619.88	4148.3
	5/13/2016 13:05	5/13/2016	13:05	40	32.5	89	32	69.1	6923.7	792.07	4940.3
	5/13/2016 13:07	5/13/2016	13:07		24				138.3	15.82	4956.2
Total CO ₂ Mass (lbs):											4956.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-33 Event 1	1/27/2016 7:59	1/27/2016	7:59	28	27	62	0	0.0			0
	1/27/2016 8:07	1/27/2016	8:07	27.5	27	62	0	0.0	0.0	0.00	0.0
	1/27/2016 8:08	1/27/2016	8:08	32	31.5	62	0	0.0	0.0	0.00	0.0
	1/27/2016 9:35	1/27/2016	9:35	32	32	66	0	0.0	0.0	0.00	0.0
	1/27/2016 11:15	1/27/2016	11:15	30.5	30.5	86	0	0.0	0.0	0.00	0.0
	1/27/2016 11:16	1/27/2016	11:16	32	32	86	0	0.0	0.0	0.00	0.0
	1/27/2016 12:29	1/27/2016	12:29	31	31	80	0	0.0	0.0	0.00	0.0
	1/27/2016 14:15	1/27/2016	14:15	31	30	76	0	0.0	0.0	0.00	0.0
	1/27/2016 14:16	1/27/2016	14:16	33	32.5	76	0	0.0	0.0	0.00	0.0
	1/27/2016 15:50	1/27/2016	15:50	33.5	32.5	76	<2	0.0	0.0	0.00	0.0
	1/27/2016 17:13	1/27/2016	17:13	33.5	32.5	71	<2	0.0	0.0	0.00	0.0
	1/28/2016 7:18	1/28/2016	7:18	32.5	31	62	6.5	13.4	5650.7	646.44	646.4
	1/28/2016 7:41	1/28/2016	7:41	32.5	31	62	6.5	13.4	307.6	35.19	681.6
	1/28/2016 9:18	1/28/2016	9:18	32.5	31.5	62	6.5	13.4	1297.3	148.41	830.0
	1/28/2016 11:18	1/28/2016	11:18	32.5	31.5	64	6.5	13.3	1603.3	183.42	1013.5
	1/28/2016 13:45	1/28/2016	13:45	32.5	31	70	7	14.3	2031.4	232.39	1245.9
	1/28/2016 15:05	1/28/2016	15:05	32.5	31	66	7	14.3	1145.4	131.04	1376.9
	1/28/2016 17:15	1/28/2016	17:15	32.5	31	61	7	14.4	1869.6	213.89	1590.8
1/28/2016 17:16	1/28/2016	17:16		25				14.4	1.65	1592.4	
SW-33 Event 2	2/3/2016 7:20	2/3/2016	7:20	26.5	26	72	0	0.0			1592.4
	2/3/2016 7:35	2/3/2016	7:35	26	25	72	0	0.0	0.0	0.00	1592.4
	2/3/2016 7:36	2/3/2016	7:36	31	29	72	5	10.0	5.0	0.57	1593.0
	2/3/2016 9:49	2/3/2016	9:49	28.5	27	77	12	23.3	2213.4	253.22	1846.2
	2/3/2016 9:50	2/3/2016	9:50	33.5	31.5	77	18	36.9	30.1	3.44	1849.7
	2/3/2016 11:21	2/3/2016	11:21	34	30	80	20	41.1	3547.6	405.84	2255.5
	2/3/2016 11:22	2/3/2016	11:22	37	32	80	21	44.5	42.8	4.89	2260.4
	2/3/2016 12:47	2/3/2016	12:47	38	33.5	81	22	47.0	3886.9	444.67	2705.1
	2/3/2016 13:29	2/3/2016	13:29	37.5	33	82	22.5	47.8	1990.3	227.69	2932.7
	2/3/2016 13:30	2/3/2016	13:30		24				47.8	5.47	2938.2
Total CO ₂ Mass (lbs):											2938.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
<u>SW-49 Event 1</u>	5/11/2016 8:42	5/11/2016	8:42	34	35	94	5	10.1			0
	5/11/2016 10:08	5/11/2016	10:08	31.5	30.5	93	14.5	28.6	1667.5	190.77	190.8
	5/11/2016 10:10	5/11/2016	10:10	40	37	93	25	53.8	82.4	9.43	200.2
	5/11/2016 12:25	5/11/2016	12:25	38.5	33.5	94	26.5	56.2	7423.7	849.27	1049.5
	5/11/2016 14:33	5/11/2016	14:33	37	32	92	28	58.6	7346.7	840.46	1889.9
	5/11/2016 16:10	5/11/2016	16:10	35.5	30.5	90	29	59.9	5748.9	657.67	2547.6
	5/11/2016 17:52	5/11/2016	17:52	38	32	88	31	65.8	6410.4	733.35	3281.0
	5/11/2016 17:54	5/11/2016	17:54		24.5				131.6	15.05	3296.0
<u>SW-49 Event 2</u>	5/13/2016 8:21	5/13/2016	8:21	33	35	85	7	14.2			3296.0
	5/13/2016 8:41	5/13/2016	8:41	31.5	30	85	16.5	32.8	470.0	53.77	3349.8
	5/13/2016 8:42	5/13/2016	8:42	40	36	85	26	56.4	44.6	5.10	3354.9
	5/13/2016 9:54	5/13/2016	9:54	40	35	90	27.5	59.4	4166.3	476.63	3831.5
	5/13/2016 11:24	5/13/2016	11:24	38.5	33	94	28	59.4	5341.9	611.11	4442.6
	5/13/2016 13:18	5/13/2016	13:18	39	32.5	91	30	64.1	7036.1	804.93	5247.5
	5/13/2016 14:12	5/13/2016	14:12	39	32	93	30.5	65.0	3485.9	398.79	5646.3
	5/13/2016 15:19	5/13/2016	15:19	38.5	32	98	32	67.6	4442.5	508.22	6154.6
	5/13/2016 15:21	5/13/2016	15:21	37	31	98	30	62.4	130.0	14.88	6169.4
	5/13/2016 16:18	5/13/2016	16:18	36.5	30.5	95	30	62.3	3555.8	406.78	6576.2
	5/13/2016 17:48	5/13/2016	17:48	36	29.5	93	31	64.2	5692.9	651.27	7227.5
	5/13/2016 17:49	5/13/2016	17:49		23				64.2	7.34	7234.8
	Total CO ₂ Mass (lbs):										

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-52 Event 1	5/11/2016 8:33	5/11/2016	8:33	35	35	88	0	0.0			0
	5/11/2016 9:52	5/11/2016	9:52	34	34.5	91	3	6.1	240.9	27.56	27.6
	5/11/2016 9:53	5/11/2016	9:53	38	37.5	91	6	12.7	9.4	1.07	28.6
	5/11/2016 12:10	5/11/2016	12:10	38	37.5	104	8	16.7	2015.1	230.53	259.2
	5/11/2016 14:11	5/11/2016	14:11	38	37.5	97	8	16.8	2030.0	232.23	491.4
	5/11/2016 15:59	5/11/2016	15:59	37.5	37	97	8.5	17.8	1869.9	213.92	705.3
	5/11/2016 18:05	5/11/2016	18:05	37.5	36.5	92	9	18.9	2313.9	264.72	970.0
	5/12/2016 8:57	5/12/2016	8:57	36.5	35	88	13.5	28.2	21033.2	2406.20	3376.2
	5/12/2016 8:59	5/12/2016	8:59		30				56.5	6.46	3382.7
Total CO ₂ Mass (lbs):											3382.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-59 Event 1	2/25/2016 7:30	2/25/2016	7:30	30	32	54	0	0.0		0.0	0.00	0
	2/25/2016 7:37	2/25/2016	7:37	29	30.5	54	0	0.0		0.0	0.00	0.0
	2/25/2016 7:38	2/25/2016	7:38	32	34.5	54	0	0.0		0.0	0.00	0.0
	2/25/2016 8:49	2/25/2016	8:49	33	35	60	0	0.0		0.0	0.00	0.0
	2/25/2016 10:19	2/25/2016	10:19	33	35	65	0	0.0		0.0	0.00	0.0
	2/25/2016 11:38	2/25/2016	11:38	33	35	68	0	0.0		0.0	0.00	0.0
	2/25/2016 12:39	2/25/2016	12:39	33	35	70	0	0.0		0.0	0.00	0.0
	2/25/2016 14:13	2/25/2016	14:13	32	33.5	68	<2	0.0		0.0	0.00	0.0
	2/25/2016 16:07	2/25/2016	16:07	32	33.5	68	<2	0.0		0.0	0.00	0.0
	2/25/2016 17:03	2/25/2016	17:03	32	33.5	70	<2	0.0		0.0	0.00	0.0
	2/26/2016 7:16	2/26/2016	7:16	31.5	32	49	5	10.3		4397.6	503.08	503.1
	2/26/2016 7:17	2/26/2016	7:17	33	34	49	9	18.9		14.6	1.67	504.8
	2/26/2016 8:23	2/26/2016	8:23	34	34.5	58	8	16.8		1176.6	134.61	639.4
	2/26/2016 9:18	2/26/2016	9:18	34	34.5	62	8	16.7		921.7	105.44	744.8
	2/26/2016 10:30	2/26/2016	10:30	34	34	65	8	16.7		1202.4	137.55	882.4
2/26/2016 11:14	2/26/2016	11:14	34	34	67	8	16.6		733.0	83.85	966.2	
2/26/2016 11:15	2/26/2016	11:15		30					16.6	1.90	968.1	
SW-59 Event 2	2/29/2016 7:47	2/29/2016	7:47	32	31	64	5	10.2				968.1
	2/29/2016 8:18	2/29/2016	8:18	32	31	64	7	14.3		379.9	43.46	1011.6
	2/29/2016 8:19	2/29/2016	8:19	35	35	64	11	23.2		18.7	2.14	1013.7
	2/29/2016 10:23	2/29/2016	10:23	36	36.5	77	10	21.0		2741.3	313.60	1327.3
	2/29/2016 13:30	2/29/2016	13:30	36.5	36	81	9	18.9		3737.2	427.53	1754.8
	2/29/2016 14:49	2/29/2016	14:49	36.5	36	82	9	18.9		1495.9	171.13	1926.0
	2/29/2016 16:12	2/29/2016	16:12	36.5	36	84	9	18.9		1569.4	179.54	2105.5
	2/29/2016 17:01	2/29/2016	17:01	36.5	36	82	9	18.9		926.5	105.99	2211.5
	3/1/2016 7:35	3/1/2016	7:35	35.5	35	59	11.5	24.5		18972.3	2170.43	4381.9
	3/1/2016 7:47	3/1/2016	7:47	35.5	35	60	11.5	24.5		293.7	33.60	4415.5
	3/1/2016 9:55	3/1/2016	9:55	35.5	35	80	11.5	24.0		3101.0	354.75	4770.3
	3/1/2016 12:46	3/1/2016	12:46	35.5	35	87	11.5	23.8		4088.4	467.71	5238.0
3/1/2016 12:47	3/1/2016	12:47		29					23.8	2.73	5240.7	
SW-59 Event 3	3/2/2016 7:25	3/2/2016	7:25	29.5	28	67	7	13.9				5240.7
	3/2/2016 7:40	3/2/2016	7:40	30	29.5	67	9	17.9		238.4	27.27	5268.0
	3/2/2016 7:42	3/2/2016	7:42	35	34	67	12	25.2		43.1	4.94	5272.9
	3/2/2016 8:29	3/2/2016	8:29	36	35	68	15	31.8		1340.4	153.34	5426.3
	3/2/2016 10:50	3/2/2016	10:50	36	35	78	15.5	32.6		4538.4	519.20	5945.5
	3/2/2016 13:03	3/2/2016	13:03	36	35	81	16	33.5		4393.6	502.63	6448.1
	3/2/2016 15:42	3/2/2016	15:42	36.5	35.5	83	16	33.6		5336.5	610.49	7058.6
	3/2/2016 16:19	3/2/2016	16:19	36.5	35.5	82	16	33.6		1244.3	142.35	7200.9
3/2/2016 16:20	3/2/2016	16:20		29.5					33.6	3.85	7204.8	
SW-59 Event 4	3/7/2016 7:15	3/7/2016	7:15	28	27	57	7	13.8				7204.8
	3/7/2016 7:33	3/7/2016	7:33	29	28.5	58	12	23.8		338.4	38.71	7243.5
	3/7/2016 7:34	3/7/2016	7:34	37	36.5	58	14	30.3		27.1	3.10	7246.6
	3/7/2016 10:08	3/7/2016	10:08	37	36.5	78	14	29.7		4619.5	528.47	7775.1
	3/7/2016 11:24	3/7/2016	11:24	37	36.5	80	14	29.6		2255.1	257.98	8033.1
	3/7/2016 12:38	3/7/2016	12:38	37	36.5	82	14	29.6		2191.5	250.71	8283.8
	3/7/2016 15:03	3/7/2016	15:03	37	36.5	82	14	29.6		4290.0	490.78	8774.5
	3/7/2016 16:40	3/7/2016	16:40	37	36.5	80	14	29.6		2872.6	328.63	9103.2
3/7/2016 16:42	3/7/2016	16:42		31					59.3	6.78	9109.9	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-59 Event 5	3/9/2016 7:11	3/9/2016	7:11	33	32	68	5	10.3			9109.9
	3/9/2016 7:13	3/9/2016	7:13	37	36	68	9	19.3	29.6	3.38	9113.3
	3/9/2016 8:06	3/9/2016	8:06	37	36	68	12	25.7	1192.2	136.39	9249.7
	3/9/2016 9:40	3/9/2016	9:40	37	36	82	15	31.7	2698.1	308.67	9558.4
	3/9/2016 11:33	3/9/2016	11:33	37	36	88	15	31.5	3571.8	408.62	9967.0
	3/9/2016 12:50	3/9/2016	12:50	37	36	88	15	31.5	2426.9	277.64	10244.6
	3/9/2016 14:18	3/9/2016	14:18	37	36	90	15	31.5	2771.0	317.01	10561.7
	3/9/2016 15:27	3/9/2016	15:27	37	36	87	15	31.5	2173.8	248.68	10810.3
	3/9/2016 16:15	3/9/2016	16:15	37	36	85	15	31.6	1515.8	173.41	10983.7
3/9/2016 16:16	3/9/2016	16:16		31				31.6	3.62	10987.4	
SW-59 Event 6	3/14/2016 7:45	3/14/2016	7:45	32	34	70	0	0.0			10987.4
	3/14/2016 9:03	3/14/2016	9:03	30	32	75	5	9.9	385.4	44.09	11031.4
	3/14/2016 9:04	3/14/2016	9:04	35	36	75	7	14.6	12.2	1.40	11032.8
	3/14/2016 11:19	3/14/2016	11:19	35	36	87	9.5	19.6	2307.3	263.96	11296.8
	3/14/2016 12:51	3/14/2016	12:51	35	36	89	9.5	19.5	1800.1	205.93	11502.7
	3/14/2016 14:18	3/14/2016	14:18	35	36	89	9.5	19.5	1700.7	194.56	11697.3
	3/14/2016 16:59	3/14/2016	16:59	35	36	92	9.5	19.5	3142.8	359.53	12056.8
	3/14/2016 17:00	3/14/2016	17:00		31				19.5	2.23	12059.1
SW-59 Event 7	3/17/2016 7:42	3/17/2016	7:42	34	35	72	4	8.3			12059.1
	3/17/2016 9:44	3/17/2016	9:44	34	34	75	8	16.5	1512.3	173.01	12232.1
	3/17/2016 11:55	3/17/2016	11:55	34	34.5	81	8	16.4	2156.9	246.74	12478.8
	3/17/2016 13:19	3/17/2016	13:19	34	34.5	83	8	16.4	1377.7	157.61	12636.4
	3/17/2016 15:45	3/17/2016	15:45	34	34.5	78	8	16.5	2398.0	274.34	12910.8
	3/17/2016 16:24	3/17/2016	16:24	34	34.5	77	8	16.5	642.4	73.49	12984.2
	3/17/2016 16:25	3/17/2016	16:25		30				16.5	1.89	12986.1
SW-59 Event 8	3/21/2016 7:33	3/21/2016	7:33	33	35	52	0	0.0			12986.1
	3/21/2016 7:55	3/21/2016	7:55	33	33	52	0	0.0	0.0	0.00	12986.1
	3/21/2016 7:56	3/21/2016	7:56	35	37	52	<2	0.0	0.0	0.00	12986.1
	3/21/2016 10:45	3/21/2016	10:45	35	36	67	5	10.5	888.0	101.59	13087.7
	3/21/2016 12:45	3/21/2016	12:45	35	36	74	7	14.6	1507.3	172.43	13260.2
	3/21/2016 14:20	3/21/2016	14:20	35	36	77	7	14.6	1386.1	158.57	13418.7
	3/21/2016 16:12	3/21/2016	16:12	35	36	75	7	14.6	1633.4	186.86	13605.6
	3/21/2016 16:13	3/21/2016	16:13		28				14.6	1.67	13607.3
Total CO ₂ Mass (lbs):											13607.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-60 Event 1	3/2/2016 7:07	3/2/2016	7:07	29	29	67	0	0.0				0
	3/2/2016 7:18	3/2/2016	7:18	29	29	67	0	0.0	0.0	0.00	0.0	
	3/2/2016 7:19	3/2/2016	7:19	33	32.5	67	0	0.0	0.0	0.00	0.0	
	3/2/2016 8:27	3/2/2016	8:27	33	32.5	68	0	0.0	0.0	0.00	0.0	
	3/2/2016 10:49	3/2/2016	10:49	33	32.5	80	0	0.0	0.0	0.00	0.0	
	3/2/2016 13:01	3/2/2016	13:01	33	32.5	82	0	0.0	0.0	0.00	0.0	
	3/2/2016 15:30	3/2/2016	15:30	33	32.5	85	0	0.0	0.0	0.00	0.0	
	3/2/2016 15:32	3/2/2016	15:32		18				0.0	0.00	0.0	
SW-60 Event 2	3/9/2016 7:15	3/9/2016	7:15	30	30	68	0	0.0				0.0
	3/9/2016 7:16	3/9/2016	7:16	34	34	68	0	0.0	0.0	0.00	0.0	
	3/9/2016 8:10	3/9/2016	8:10	34	33	68	0	0.0	0.0	0.00	0.0	
	3/9/2016 9:39	3/9/2016	9:39	34	33	84	0	0.0	0.0	0.00	0.0	
	3/9/2016 11:31	3/9/2016	11:31	34	33	90	0	0.0	0.0	0.00	0.0	
	3/9/2016 12:48	3/9/2016	12:48	34	33	90	0	0.0	0.0	0.00	0.0	
	3/9/2016 14:17	3/9/2016	14:17	34	33	92	0	0.0	0.0	0.00	0.0	
	3/9/2016 15:24	3/9/2016	15:24	34	33	89	0	0.0	0.0	0.00	0.0	
	3/9/2016 16:13	3/9/2016	16:13	34	33	88	0	0.0	0.0	0.00	0.0	
	3/10/2016 7:22	3/10/2016	7:22	33	32	75	<2	0.0	0.0	0.00	0.0	
		3/10/2016 7:24	3/10/2016	7:24		19				0.0	0.00	0.0
SW-60 Event 3	3/14/2016 7:40	3/14/2016	7:40	32	31.5	70	0	0.0				0.0
	3/14/2016 7:55	3/14/2016	7:55	33	33	70	0	0.0	0.0	0.00	0.0	
	3/14/2016 9:02	3/14/2016	9:02	33	33	70	0	0.0	0.0	0.00	0.0	
	3/14/2016 11:29	3/14/2016	11:29	32.5	32	88	0	0.0	0.0	0.00	0.0	
	3/14/2016 12:52	3/14/2016	12:52	32.5	32	90	0	0.0	0.0	0.00	0.0	
	3/14/2016 14:14	3/14/2016	14:14	32.5	32	91	0	0.0	0.0	0.00	0.0	
	3/14/2016 16:47	3/14/2016	16:47	32.5	32	95	0	0.0	0.0	0.00	0.0	
	3/14/2016 18:04	3/14/2016	18:04	32.5	32	93	0	0.0	0.0	0.00	0.0	
	3/15/2016 7:42	3/15/2016	7:42	32	31	70	0	0.0	0.0	0.00	0.0	
	3/15/2016 7:45	3/15/2016	7:45	36	35	70	0	0.0	0.0	0.00	0.0	
	3/15/2016 8:54	3/15/2016	8:54	36	35.5	84	3	6.3	216.2	24.73	24.7	
	3/15/2016 11:19	3/15/2016	11:19	36	35	88	4	8.3	1057.6	120.99	145.7	
	3/15/2016 13:42	3/15/2016	13:42	36	35	95	4	8.3	1186.2	135.70	281.4	
	3/15/2016 16:16	3/15/2016	16:16	36	35	101	4	8.2	1269.7	145.25	426.7	
	3/15/2016 17:11	3/15/2016	17:11	36	35	100	4	8.2	452.4	51.75	478.4	
	3/15/2016 18:03	3/15/2016	18:03	36	35	94	4	8.3	429.1	49.09	527.5	
	3/16/2016 7:42	3/16/2016	7:42	35.5	34	71	5	10.5	7697.2	880.56	1408.1	
	3/16/2016 7:43	3/16/2016	7:43		19			10.5	1.20	1409.3		
SW-60 Event 4	3/21/2016 7:40	3/21/2016	7:40	32.5	32	49	0	0.0				1409.3
	3/21/2016 7:57	3/21/2016	7:57	32.5	32	49	0	0.0	0.0	0.00	1409.3	
	3/21/2016 10:43	3/21/2016	10:43	32.5	32	70	0	0.0	0.0	0.00	1409.3	
	3/21/2016 12:47	3/21/2016	12:47	32.5	32	74	0	0.0	0.0	0.00	1409.3	
	3/21/2016 14:19	3/21/2016	14:19	32.5	32	77	0	0.0	0.0	0.00	1409.3	
	3/21/2016 16:18	3/21/2016	16:18	32.5	32	78	0	0.0	0.0	0.00	1409.3	
	3/22/2016 7:45	3/22/2016	7:45	31.5	31	47	<2	0.0	0.0	0.00	1409.3	
	3/22/2016 9:59	3/22/2016	9:59	31.5	31	80	<2	0.0	0.0	0.00	1409.3	
	3/22/2016 13:42	3/22/2016	13:42	31.5	31	80	3	6.0	669.0	76.53	1485.8	
	3/22/2016 16:04	3/22/2016	16:04	31.5	31	82	3	6.0	851.2	97.37	1583.2	
	3/23/2016 7:31	3/23/2016	7:31	31	30.5	52	3	6.1	5618.5	642.76	2225.9	
	3/23/2016 8:44	3/23/2016	8:44	31	30.5	70	3	6.0	443.8	50.77	2276.7	
	3/23/2016 10:25	3/23/2016	10:25	31	30.5	80	3	6.0	605.6	69.28	2346.0	

LCP Chemicals Site, Brunswick, GA
 SW-60

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	3/23/2016 12:07	3/23/2016	12:07	31	30	88	4	7.9		707.0	80.88	2426.9
	3/23/2016 13:12	3/23/2016	13:12	31	30	88	4	7.9		513.2	58.71	2485.6
	3/23/2016 13:13	3/23/2016	13:13		19					7.9	0.90	2486.5
Total CO ₂ Mass (lbs):											2486.5	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-62 Event 1	11/4/2015 7:24	11/4/2015	7:24	32	32	79	0	0.0			0
	11/4/2015 8:02	11/4/2015	8:02	30	30	79	8	15.7	299.2	34.23	34.2
	11/4/2015 8:03	11/4/2015	8:03	32	32	79	10	20.1	17.9	2.05	36.3
	11/4/2015 8:32	11/4/2015	8:32	31	31	79	10	19.9	580.5	66.41	102.7
	11/4/2015 8:33	11/4/2015	8:33	32	32	80	12	24.1	22.0	2.52	105.2
	11/4/2015 9:33	11/4/2015	9:33	32	32	80	13	26.1	1508.1	172.53	277.7
	11/4/2015 10:28	11/4/2015	10:28	31	31	80	14	27.8	1484.6	169.84	447.6
	11/4/2015 11:30	11/4/2015	11:30	31	31	80	15	29.8	1788.0	204.55	652.1
	11/4/2015 11:32	11/4/2015	11:32		20				59.7	6.83	659.0
SW-62 Event 2	11/10/2015 12:34	11/10/2015	12:34	28	28.5	76	0	0.0			659.0
	11/10/2015 12:40	11/10/2015	12:40	28	27.5	77	0	0.0	0.0	0.00	659.0
	11/10/2015 12:42	11/10/2015	12:42	30	30	77	0	0.0	0.0	0.00	659.0
	11/10/2015 13:52	11/10/2015	13:52	29	29	80	7	13.6	476.4	54.50	713.5
	11/10/2015 13:55	11/10/2015	13:55		21				40.8	4.67	718.1
SW-62 Event 3	3/3/2016 7:27	3/3/2016	7:27	29	30	50	0	0.0			718.1
	3/3/2016 7:54	3/3/2016	7:54	29	28.5	58	4	7.9	107.3	12.27	730.4
	3/3/2016 7:55	3/3/2016	7:55	33	32.5	58	7	14.5	11.2	1.29	731.7
	3/3/2016 8:39	3/3/2016	8:39	33	32.5	69	11	22.6	817.0	93.47	825.2
	3/3/2016 10:35	3/3/2016	10:35	32.5	31	80	13	26.3	2835.1	324.33	1149.5
	3/3/2016 12:27	3/3/2016	12:27	32	30	81	15	30.1	3159.3	361.43	1510.9
	3/3/2016 13:33	3/3/2016	13:33	32	30	82	15.5	31.1	2021.0	231.20	1742.1
	3/3/2016 14:59	3/3/2016	14:59	30.5	29	86	18	35.4	2859.8	327.16	2069.3
	3/3/2016 16:02	3/3/2016	16:02	30	28.5	83	18	35.3	2227.0	254.77	2324.1
	3/3/2016 16:03	3/3/2016	16:03		18				35.3	4.04	2328.1
SW-62 Event 4	3/8/2016 7:18	3/8/2016	7:18	31	32	62	0	0.0			2328.1
	3/8/2016 7:47	3/8/2016	7:47	29	30	66	0	0.0	0.0	0.00	2328.1
	3/8/2016 7:48	3/8/2016	7:48	32	33.5	66	0	0.0	0.0	0.00	2328.1
	3/8/2016 9:32	3/8/2016	9:32	32	32	86	6	12.0	623.8	71.36	2399.5
	3/8/2016 11:18	3/8/2016	11:18	31	30.5	89	10.5	20.7	1733.2	198.28	2597.7
	3/8/2016 12:30	3/8/2016	12:30	31	30	89	12	23.7	1597.3	182.73	2780.5
	3/8/2016 14:08	3/8/2016	14:08	30	29	89	14	27.3	2497.3	285.69	3066.2
	3/8/2016 15:14	3/8/2016	15:14	30	29	88	15	29.3	1867.1	213.60	3279.8
	3/8/2016 16:50	3/8/2016	16:50	29.5	28	85	16	31.1	2900.1	331.77	3611.5
	3/8/2016 16:51	3/8/2016	16:51		18				31.1	3.56	3615.1
SW-62 Event 5	3/17/2016 7:48	3/17/2016	7:48	32	32	72	<2	0.0			3615.1
	3/17/2016 9:39	3/17/2016	9:39	30	30	76	10	19.7	1095.7	125.35	3740.4
	3/17/2016 9:40	3/17/2016	9:40	34	33.5	76	16	33.0	26.4	3.02	3743.5
	3/17/2016 11:51	3/17/2016	11:51	34	32.5	80	22	45.2	5120.9	585.84	4329.3
	3/17/2016 11:52	3/17/2016	11:52		18				45.2	5.17	4334.5
Total CO ₂ Mass (lbs):											4334.5

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-66 Event 1	5/11/2016 8:39	5/11/2016	8:39	32.5	33.5	87	0	0.0			0
	5/11/2016 10:04	5/11/2016	10:04	29.5	30	86	14	27.2	1156.9	132.35	132.4
	5/11/2016 10:05	5/11/2016	10:05	38	35.5	86	30	63.8	45.5	5.21	137.6
	5/11/2016 12:19	5/11/2016	12:19	34.5	32	84	30	61.7	8407.2	961.79	1099.3
	5/11/2016 14:42	5/11/2016	14:42	33.5	31	84	30	61.1	8778.3	1004.24	2103.6
	5/11/2016 16:06	5/11/2016	16:06	33	30.5	84	30	60.7	5116.1	585.28	2688.9
	5/11/2016 17:45	5/11/2016	17:45	34.5	33	82	32	65.9	6271.2	717.42	3406.3
	5/11/2016 17:46	5/11/2016	17:46		25				65.9	7.54	3413.8
	Total CO ₂ Mass (lbs):										

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-73 Event 1	5/10/2016 10:18	5/10/2016	10:18	27	27	86	0	0.0				0
	5/10/2016 12:51	5/10/2016	12:51	26	26	90	7	13.0		994.9	113.82	113.8
	5/10/2016 12:52	5/10/2016	12:52	34	32	90	20	40.7		26.8	3.07	116.9
	5/10/2016 14:33	5/10/2016	14:33	36	34	87	23	47.9		4473.8	511.81	628.7
	5/10/2016 16:20	5/10/2016	16:20	35	33	81	24.5	50.8		5280.2	604.06	1232.8
	5/10/2016 16:22	5/10/2016	16:22	37	34	81	29.5	62.4		113.2	12.95	1245.7
	5/10/2016 17:57	5/10/2016	17:57	37.5	33.5	80	29.5	62.8		5945.6	680.18	1925.9
	5/10/2016 17:58	5/10/2016	17:58		29.5					62.8	7.18	1933.1
SW-73 Event 2	5/12/2016 9:47	5/12/2016	9:47	31	32	92	10	19.7				1933.1
	5/12/2016 10:07	5/12/2016	10:07	30	31.5	90	13	25.3		449.9	51.47	1984.5
	5/12/2016 10:08	5/12/2016	10:08	33	34	90	19	38.3		31.8	3.64	1988.2
	5/12/2016 11:59	5/12/2016	11:59	33.5	33.5	88	20	40.6		4374.0	500.39	2488.6
	5/12/2016 13:33	5/12/2016	13:33	33	32.5	87	21	42.4		3899.0	446.05	2934.6
	5/12/2016 14:18	5/12/2016	14:18	33	32.5	90	22	44.3		1950.6	223.15	3157.8
	5/12/2016 16:15	5/12/2016	16:15	32.5	32	87	23.5	47.2		5352.2	612.29	3770.1
	5/12/2016 17:37	5/12/2016	17:37	32	31	84	24.5	49.1		3947.2	451.56	4221.6
5/12/2016 17:38	5/12/2016	17:38		28					49.1	5.61	4227.2	
SW-73 Event 3	5/17/2016 7:36	5/17/2016	7:36	32	32	80	12	24.1				4227.2
	5/17/2016 7:43	5/17/2016	7:43	29	30	80	18	35.0		206.9	23.67	4250.9
	5/17/2016 7:44	5/17/2016	7:44	34	33.5	80	28	57.5		46.3	5.29	4256.2
	5/17/2016 9:22	5/17/2016	9:22	35	33.5	83	26	53.8		5454.7	624.01	4880.2
	5/17/2016 10:22	5/17/2016	10:22	35	33	83	28	57.9		3352.5	383.52	5263.7
	5/17/2016 10:23	5/17/2016	10:23		29					57.9	6.63	5270.4
Total CO ₂ Mass (lbs):											5270.4	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-74 Event 1	5/12/2016 9:45	5/12/2016	9:45	33	34	92	4	8.0				0
	5/12/2016 10:07	5/12/2016	10:07	32.5	34	90	8	16.0		264.7	30.28	30.3
	5/12/2016 10:09	5/12/2016	10:09	36	36	90	12	24.9		40.9	4.68	35.0
	5/12/2016 11:57	5/12/2016	11:57	36	35	88	15	31.2		3030.9	346.73	381.7
	5/12/2016 13:31	5/12/2016	13:31	35.5	35	87	15.5	32.1		2976.3	340.49	722.2
	5/12/2016 14:19	5/12/2016	14:19	35	35	90	16	32.9		1560.2	178.49	900.7
	5/12/2016 16:15	5/12/2016	16:15	35	34	87	16	33.0		3820.9	437.11	1337.8
	5/12/2016 16:16	5/12/2016	16:16	40	36.5	87	24	51.9		42.5	4.86	1342.6
	5/12/2016 17:35	5/12/2016	17:35	40.5	37	84	22.5	49.1		3989.8	456.44	1799.1
	5/12/2016 17:36	5/12/2016	17:36		29					49.1	5.61	1804.7
Total CO ₂ Mass (lbs):											1804.7	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-86 Event 1	11/2/2015 13:42	11/2/2015	13:42	24	26	93	0	0.0				0
	11/2/2015 14:00	11/2/2015	14:00	24	25	92	0	0.0		0.0	0.00	0.0
	11/2/2015 14:01	11/2/2015	14:01	30	32	92	5	9.7		4.9	0.56	0.6
	11/2/2015 14:54	11/2/2015	14:54	31	31	94	7	13.7		621.8	71.13	71.7
	11/2/2015 16:07	11/2/2015	16:07	31	30	88	10	19.7		1222.0	139.79	211.5
	11/2/2015 16:08	11/2/2015	16:08	32	31	88	12	23.9		21.8	2.50	214.0
	11/2/2015 16:59	11/2/2015	16:59	32	30.5	84	12	24.0		1223.6	139.98	354.0
	11/2/2015 17:00	11/2/2015	17:00		23					24.0	2.75	356.7
SW-86 Event 2	11/5/2015 11:44	11/5/2015	11:44	30	31	82	0	0.0				356.7
	11/5/2015 11:57	11/5/2015	11:57	29	30	84	4.5	8.7		56.7	6.48	363.2
	11/5/2015 11:58	11/5/2015	11:58	30	31	84	6	11.8		10.2	1.17	364.4
	11/5/2015 12:29	11/5/2015	12:29	30	30.5	88	8	15.6		424.2	48.53	412.9
	11/5/2015 13:03	11/5/2015	13:03	30	29.5	84	10.5	20.6		615.2	70.38	483.3
	11/5/2015 13:04	11/5/2015	13:04	31	31	84	13.5	26.7		23.7	2.71	486.0
	11/5/2015 14:01	11/5/2015	14:01	31	30	82	14	27.8		1554.4	177.82	663.8
	11/5/2015 15:01	11/5/2015	15:01	31	29.5	81	15.5	30.8		1757.7	201.08	864.9
	11/5/2015 15:02	11/5/2015	15:02	32	30	81	18	36.2		33.5	3.83	868.7
	11/5/2015 16:01	11/5/2015	16:01	32	30	79	17.5	35.2		2105.8	240.91	1109.6
	11/5/2015 16:02	11/5/2015	16:02		22.5					35.2	4.03	1113.7
SW-86 Event 3	11/10/2015 12:27	11/10/2015	12:27	28	30	76	0	0.0				1113.7
	11/10/2015 12:39	11/10/2015	12:39	28	29	76	<2	0.0		0.0	0.00	1113.7
	11/10/2015 12:40	11/10/2015	12:40	29	31	76	4	7.8		3.9	0.45	1114.1
	11/10/2015 14:00	11/10/2015	14:00	29	30	77	7	13.6		858.3	98.19	1212.3
	11/10/2015 15:30	11/10/2015	15:30	29	29	72	8	15.7		1319.6	150.96	1363.2
	11/10/2015 15:31	11/10/2015	15:31	30	30	72	11	21.8		18.7	2.14	1365.4
	11/10/2015 17:05	11/10/2015	17:05	30	30	69	11	21.9		2052.3	234.79	1600.2
	11/10/2015 17:07	11/10/2015	17:07		23					43.7	5.00	1605.2
SW-86 Event 4	11/12/2015 12:42	11/12/2015	12:42	25	25	90	0	0.0				1605.2
	11/12/2015 12:47	11/12/2015	12:47	30	30	90	0	0.0		0.0	0.00	1605.2
	11/12/2015 13:05	11/12/2015	13:05	29	29	90	3	5.8		52.0	5.95	1611.1
	11/12/2015 13:06	11/12/2015	13:06	31	31	90	6	11.8		8.8	1.01	1612.1
	11/12/2015 14:27	11/12/2015	14:27	30.5	30.5	90	8	15.7		1113.5	127.39	1739.5
	11/12/2015 15:44	11/12/2015	15:44	30.5	30.5	90	8	15.7		1206.9	138.07	1877.6
	11/12/2015 17:08	11/12/2015	17:08	29	28	84	11	21.3		1553.2	177.68	2055.3
	11/12/2015 17:09	11/12/2015	17:09		24					21.3	2.44	2057.7
SW-86 Event 5	11/16/2015 13:18	11/16/2015	13:18	28	28	84	0	0.0				2057.7
	11/16/2015 13:27	11/16/2015	13:27	27	27	84	0	0.0		0.0	0.00	2057.7
	11/16/2015 13:28	11/16/2015	13:28	31	31	84	3	5.9		3.0	0.34	2058.0
	11/16/2015 14:03	11/16/2015	14:03	31	30.5	83	4.5	8.9		260.2	29.77	2087.8
	11/16/2015 16:00	11/16/2015	16:00	30	29	80	8	15.7		1442.5	165.02	2252.8
	11/16/2015 16:02	11/16/2015	16:02	31	30	80	10	19.9		35.6	4.08	2256.9
	11/16/2015 16:53	11/16/2015	16:53	30	29.5	77	10.5	20.7		1035.3	118.44	2375.4
	11/16/2015 16:54	11/16/2015	16:54		24					20.7	2.37	2377.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-86 Event 6	11/17/2015 12:10	11/17/2015	12:10	27	28	87	0	0.0				2377.7
	11/17/2015 12:18	11/17/2015	12:18	25	27	87	0	0.0	0.0	0.00		2377.7
	11/17/2015 12:19	11/17/2015	12:19	30	32	87	4	7.8	3.9	0.45		2378.2
	11/17/2015 13:13	11/17/2015	13:13	30	31	87	8	15.6	633.0	72.42		2450.6
	11/17/2015 14:39	11/17/2015	14:39	30	29.5	84	10	19.6	1514.6	173.27		2623.8
	11/17/2015 14:40	11/17/2015	14:40	32	31.5	84	13	26.0	22.8	2.61		2626.5
	11/17/2015 15:26	11/17/2015	15:26	32	31	85	13	26.0	1197.3	136.98		2763.4
	11/17/2015 16:35	11/17/2015	16:35	32	30.5	75	14	28.3	1873.5	214.33		2977.8
	11/17/2015 16:37	11/17/2015	16:37		24				56.6	6.47		2984.2
SW-86 Event 7	11/19/2015 12:13	11/19/2015	12:13	26	26	78	0	0.0				2984.2
	11/19/2015 12:15	11/19/2015	12:15	30	30	78	0	0.0	0.0	0.00		2984.2
	11/19/2015 13:15	11/19/2015	13:15	27.5	28	79	6	11.5	344.2	39.37		3023.6
	11/19/2015 13:16	11/19/2015	13:16	30	30	79	8	15.7	13.6	1.56		3025.2
	11/19/2015 15:36	11/19/2015	15:36	29.5	28.5	77	11	21.6	2612.5	298.87		3324.0
	11/19/2015 15:37	11/19/2015	15:37		22				21.6	2.47		3326.5
SW-86 Event 8	11/21/2015 12:23	11/21/2015	12:23	26	27	78	0	0.0				3326.5
	11/21/2015 12:48	11/21/2015	12:48	26	27	78	3	5.6	70.5	8.06		3334.6
	11/21/2015 12:49	11/21/2015	12:49	30	30.5	78	5.5	10.8	8.2	0.94		3335.5
	11/21/2015 14:10	11/21/2015	14:10	30	29.5	80	9	17.7	1155.8	132.22		3467.7
	11/21/2015 14:11	11/21/2015	14:11	33	32	80	12	24.4	21.0	2.41		3470.1
	11/21/2015 15:00	11/21/2015	15:00	33	31	76	13	26.5	1247.5	142.71		3612.9
	11/21/2015 16:11	11/21/2015	16:11	33	30	74	14	28.6	1957.7	223.96		3836.8
	11/21/2015 17:12	11/21/2015	17:12	32	30	72	15.5	31.4	1831.0	209.46		4046.3
	11/21/2015 17:14	11/21/2015	17:14		23				62.8	7.19		4053.5
SW-86 Event 9	12/1/2015 7:40	12/1/2015	7:40	26	29	68	0	0.0				4053.5
	12/1/2015 8:35	12/1/2015	8:35	26	27.5	69	4	7.6	208.5	23.85		4077.3
	12/1/2015 8:36	12/1/2015	8:36	28	29.5	69	8	15.5	11.6	1.32		4078.6
	12/1/2015 9:47	12/1/2015	9:47	30	29	72	8	15.9	1114.4	127.49		4206.1
	12/1/2015 11:22	12/1/2015	11:22	30	29	83	9.5	18.6	1638.1	187.40		4393.5
	12/1/2015 12:42	12/1/2015	12:42	30	29	86	10	19.6	1527.4	174.74		4568.3
	12/1/2015 14:18	12/1/2015	14:18	30	29	86	11	21.5	1971.2	225.51		4793.8
	12/1/2015 15:50	12/1/2015	15:50	29	28	82	12	23.3	2060.7	235.75		5029.5
	12/1/2015 17:13	12/1/2015	17:13	28	27	75	12	23.2	1928.0	220.56		5250.1
	12/1/2015 17:15	12/1/2015	17:15		22				46.3	5.30		5255.4
SW-86 Event 10	12/4/2015 7:37	12/4/2015	7:37	27	27	58	0	0.0				5255.4
	12/4/2015 8:32	12/4/2015	8:32	26.5	26	60	4	7.7	211.7	24.21		5279.6
	12/4/2015 8:33	12/4/2015	8:33	32	31	60	9	18.5	13.1	1.50		5281.1
	12/4/2015 9:49	12/4/2015	9:49	31	30	68	11	22.1	1542.4	176.45		5457.5
	12/4/2015 11:03	12/4/2015	11:03	31	29.5	70	12	24.1	1710.6	195.69		5653.2
	12/4/2015 12:08	12/4/2015	12:08	31	29	71	13	26.1	1630.9	186.57		5839.8
	12/4/2015 12:09	12/4/2015	12:09		24.5				26.1	2.98		5842.8
SW-86 Event 11	12/8/2015 7:50	12/8/2015	7:50	36	36	58	0	0.0				5842.8
	12/8/2015 8:23	12/8/2015	8:23	34	34	60	10	20.9	345.6	39.54		5882.3
	12/8/2015 9:38	12/8/2015	9:38	33	32	78	14	28.5	1854.7	212.18		6094.5
	12/8/2015 10:30	12/8/2015	10:30	33	32	80	14	28.5	1481.1	169.44		6264.0
	12/8/2015 11:30	12/8/2015	11:30	32	31	80	18	36.2	1939.5	221.88		6485.8
	12/8/2015 13:00	12/8/2015	13:00	32	31	82	18	36.1	3254.5	372.31		6858.2
	12/8/2015 15:22	12/8/2015	15:22	32	31	78	18	36.3	5139.8	587.99		7446.1
	12/8/2015 16:50	12/8/2015	16:50	32	31	70	18	36.5	3203.7	366.51		7812.7
	12/8/2015 16:51	12/8/2015	16:51		23				36.5	4.18		7816.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-86 Event 12	12/11/2015 7:44	12/11/2015	7:44	36	36	52	0	0.0				7816.8	
	12/11/2015 8:08	12/11/2015	8:08	35	35	52	10	21.3	256.0	29.29	7846.1		
	12/11/2015 9:20	12/11/2015	9:20	32	32	78	14	28.2	1783.6	204.04	8050.2		
	12/11/2015 10:57	12/11/2015	10:57	32	32	78	14	28.2	2736.0	313.00	8363.2		
	12/11/2015 10:58	12/11/2015	10:58		22				28.2	3.23	8366.4		
SW-86 Event 13	12/15/2015 7:45	12/15/2015	7:45	26	28	72	0	0.0				8366.4	
	12/15/2015 8:34	12/15/2015	8:34	26	27	74	5	9.4	231.1	26.44	8392.8		
	12/15/2015 8:35	12/15/2015	8:35	30	30	74	9.5	18.8	14.1	1.61	8394.4		
	12/15/2015 10:40	12/15/2015	10:40	30.5	29	77	11	21.8	2538.2	290.37	8684.8		
	12/15/2015 10:42	12/15/2015	10:42	32	31	77	14	28.2	50.1	5.73	8690.5		
	12/15/2015 12:28	12/15/2015	12:28	32	30	80	14.5	29.2	3041.7	347.97	9038.5		
	12/15/2015 14:05	12/15/2015	14:05	32	29	80	16	32.2	2974.6	340.29	9378.8		
	12/15/2015 14:53	12/15/2015	14:53	32	29	81	16	32.1	1543.6	176.59	9555.4		
	12/15/2015 15:48	12/15/2015	15:48	32	28.5	80	16.5	33.2	1796.4	205.50	9760.9		
	12/15/2015 16:59	12/15/2015	16:59	32	28	78	17	34.3	2393.7	273.84	10034.7		
	12/15/2015 17:00	12/15/2015	17:00		23.5				34.3	3.92	10038.7		
	SW-86 Event 14	12/17/2015 7:37	12/17/2015	7:37	26	27	72	0	0.0				10038.7
		12/17/2015 8:07	12/17/2015	8:07	25	26	74	3.5	6.5	97.8	11.19	10049.8	
12/17/2015 8:08		12/17/2015	8:08	29	29.5	74	6.5	12.7	9.6	1.10	10050.9		
12/17/2015 9:46		12/17/2015	9:46	30	29	81	10	19.6	1585.6	181.40	10232.3		
12/17/2015 10:48		12/17/2015	10:48	29	28	82	11	21.3	1270.9	145.39	10377.7		
12/17/2015 11:42		12/17/2015	11:42	28	27	81	12	23.0	1198.4	137.10	10514.8		
12/17/2015 12:42		12/17/2015	12:42	28	28	84	12	23.0	1380.3	157.91	10672.7		
12/17/2015 12:43		12/17/2015	12:43	30	29	84	16	31.3	27.2	3.11	10675.8		
12/17/2015 13:38		12/17/2015	13:38	30	28.5	84	16	31.3	1724.1	197.24	10873.1		
12/17/2015 14:26		12/17/2015	14:26	30.5	28	81	16	31.6	1511.1	172.87	11045.9		
12/17/2015 16:11		12/17/2015	16:11	30	27	74	16	31.6	3321.4	379.97	11425.9		
12/17/2015 16:12		12/17/2015	16:12		22.5				31.6	3.62	11429.5		
SW-86 Event 15		1/7/2016 7:42	1/7/2016	7:42	25	26	56	0	0.0				11429.5
	1/7/2016 8:15	1/7/2016	8:15	24	25	56	3	5.6	92.6	10.60	11440.1		
	1/7/2016 8:16	1/7/2016	8:16	30	31.5	56	10	20.1	12.9	1.47	11441.6		
	1/7/2016 10:40	1/7/2016	10:40	31.5	29.5	64	14	28.4	3497.3	400.09	11841.7		
	1/7/2016 11:59	1/7/2016	11:59	31	29	67	15	30.2	2316.7	265.03	12106.7		
	1/7/2016 14:18	1/7/2016	14:18	30.5	28	69	16	32.0	4322.6	494.51	12601.2		
	1/7/2016 15:24	1/7/2016	15:24	30.5	27.5	70	16.5	33.0	2142.9	245.14	12846.4		
	1/7/2016 16:51	1/7/2016	16:51	30	27.5	65	17	33.9	2909.1	332.80	13179.2		
	1/7/2016 16:52	1/7/2016	16:52		22				33.9	3.88	13183.1		
SW-86 Event 16	1/12/2016 7:25	1/12/2016	7:25	28	28	37	0	0.0				13183.1	
	1/12/2016 8:32	1/12/2016	8:32	26.5	25.5	48	4	7.8	261.0	29.86	13212.9		
	1/12/2016 8:33	1/12/2016	8:33	31.5	31	48	10	20.6	14.2	1.63	13214.5		
	1/12/2016 10:18	1/12/2016	10:18	31	29	70	12	24.1	2348.9	268.72	13483.3		
	1/12/2016 11:38	1/12/2016	11:38	30.5	29	71	13.5	26.9	2041.3	233.53	13716.8		
	1/12/2016 12:47	1/12/2016	12:47	30	28	72	14	27.7	1886.5	215.82	13932.6		
	1/12/2016 14:32	1/12/2016	14:32	29.5	27.5	72	14.5	28.6	2956.9	338.27	14270.9		
	1/12/2016 16:07	1/12/2016	16:07	28	26	70	15	29.1	2739.7	313.43	14584.3		
	1/12/2016 17:24	1/12/2016	17:24	28	26	64	15.5	30.3	2285.2	261.42	14845.7		
	1/12/2016 17:25	1/12/2016	17:25		22				30.3	3.46	14849.2		

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-86 Event 17	1/14/2016 7:24	1/14/2016	7:24	24	26	66	0	0.0			14849.2
	1/14/2016 7:39	1/14/2016	7:39	24	25	66	<2	0.0	0.0	0.00	14849.2
	1/14/2016 7:40	1/14/2016	7:40	28	28	66	5	9.7	4.9	0.56	14849.7
	1/14/2016 8:43	1/14/2016	8:43	28	27.5	66	8	15.6	797.6	91.25	14941.0
	1/14/2016 8:44	1/14/2016	8:44	30	29.5	66	12	23.9	19.8	2.26	14943.3
	1/14/2016 10:22	1/14/2016	10:22	30	29	66	13	25.9	2442.2	279.39	15222.6
	1/14/2016 11:26	1/14/2016	11:26	29.5	28	67	14	27.7	1716.5	196.37	15419.0
	1/14/2016 11:27	1/14/2016	11:27		24				27.7	3.17	15422.2
SW-86 Event 18	1/18/2016 8:31	1/18/2016	8:31	27	27	55	0	0.0			15422.2
	1/18/2016 9:16	1/18/2016	9:16	26	25.5	58	3	5.7	129.3	14.80	15437.0
	1/18/2016 9:17	1/18/2016	9:17	29.5	30.5	58	9	18.0	11.9	1.36	15438.3
	1/18/2016 10:17	1/18/2016	10:17	30	29.5	62	9.5	19.0	1109.9	126.97	15565.3
	1/18/2016 12:10	1/18/2016	12:10	30	28.5	66	12	23.9	2426.0	277.53	15842.8
	1/18/2016 13:46	1/18/2016	13:46	29.5	27.5	66	13.5	26.8	2432.8	278.32	16121.2
	1/18/2016 15:45	1/18/2016	15:45	29.5	27	67	14	27.7	3241.9	370.87	16492.0
	1/18/2016 17:22	1/18/2016	17:22	29	27	60	15	29.7	2787.0	318.83	16810.9
	1/18/2016 17:23	1/18/2016	17:23		22				29.7	3.40	16814.3
SW-86 Event 19	1/25/2016 8:01	1/25/2016	8:01	25	27	45	0	0.0			16814.3
	1/25/2016 8:32	1/25/2016	8:32	25.5	26	53	4.5	8.6	133.5	15.27	16829.5
	1/25/2016 8:33	1/25/2016	8:33	29	30.5	53	10	20.0	14.3	1.63	16831.2
	1/25/2016 9:37	1/25/2016	9:37	31	30	66	10.5	21.2	1316.3	150.59	16981.8
	1/25/2016 11:15	1/25/2016	11:15	30.5	29	75	12.5	24.8	2254.6	257.92	17239.7
	1/25/2016 12:50	1/25/2016	12:50	30	28.5	77	13.5	26.6	2444.8	279.69	17519.4
	1/25/2016 14:22	1/25/2016	14:22	30	28	73	14.5	28.7	2545.5	291.21	17810.6
	1/25/2016 16:05	1/25/2016	16:05	30	27.5	70	15.5	30.8	3063.8	350.50	18161.1
	1/25/2016 16:58	1/25/2016	16:58	29	27	65	16	31.6	1652.1	189.01	18350.1
	1/25/2016 16:59	1/25/2016	16:59		22.5				31.6	3.61	18353.7
SW-86 Event 20	1/28/2016 7:20	1/28/2016	7:20	26	27.5	61	0	0.0			18353.7
	1/28/2016 7:43	1/28/2016	7:43	26	26	61	3.5	6.7	76.9	8.80	18362.5
	1/28/2016 7:44	1/28/2016	7:44	30	30	61	7.5	15.0	10.9	1.24	18363.7
	1/28/2016 9:19	1/28/2016	9:19	30.5	30	62	10.5	21.1	1717.6	196.50	18560.2
	1/28/2016 11:19	1/28/2016	11:19	30	28	64	12.5	25.0	2766.3	316.46	18876.7
	1/28/2016 13:42	1/28/2016	13:42	29.5	27.5	70	14	27.6	3761.8	430.35	19307.0
	1/28/2016 15:03	1/28/2016	15:03	29.5	27	66	14.5	28.7	2283.6	261.25	19568.3
	1/28/2016 17:15	1/28/2016	17:15	29.5	27	61	15	29.9	3869.2	442.64	20010.9
	1/28/2016 17:16	1/28/2016	17:16		21.5				29.9	3.42	20014.3

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-86 Event 21	2/4/2016 7:29	2/4/2016	7:29	27	26	70	0	0.0			20014.3
	2/4/2016 7:53	2/4/2016	7:53	27	26	70	3.5	6.7	80.5	9.21	20023.5
	2/4/2016 7:54	2/4/2016	7:54	30	30.5	70	9	17.9	12.3	1.41	20024.9
	2/4/2016 11:30	2/4/2016	11:30	30	28	64	13.5	27.0	4842.6	554.00	20578.9
	2/4/2016 13:58	2/4/2016	13:58	30	27	64	15	30.0	4212.8	481.95	21060.9
	2/4/2016 15:19	2/4/2016	15:19	29	27	61	16	31.7	2497.0	285.65	21346.5
	2/4/2016 17:06	2/4/2016	17:06	29	27	58	16	31.8	3395.9	388.49	21735.0
	2/4/2016 17:07	2/4/2016	17:07		22				31.8	3.64	21738.7
Total CO ₂ Mass (lbs):											21738.7

<u>Sparge Event</u>	<u>Date + Time</u>	<u>Date</u>	<u>Time</u>	<u>P at Panel (psig)</u>	<u>P at Well (psig)</u>	<u>Temp (°F)</u>	<u>Rotameter Reading (scfm)</u>	<u>Flow (scfm)</u>	<u>Volume of CO₂ (scf)</u>	<u>Mass of CO₂ (lb)</u>	<u>Cum. Mass (lb)</u>
<u>SW-104 Event 1</u>	5/11/2016 8:22	5/11/2016	8:22	29	29	90	< 2	0.0			0
	5/11/2016 9:42	5/11/2016	9:42	27	26	90	12	22.6	902.8	103.28	103.3
	5/11/2016 9:43	5/11/2016	9:43	31	31	90	19	37.4	30.0	3.43	106.7
	5/11/2016 12:02	5/11/2016	12:02	30	27.5	100	22.5	43.4	5620.0	642.92	749.6
	5/11/2016 12:03	5/11/2016	12:03	34.5	30.5	100	28	56.7	50.1	5.73	755.4
	5/11/2016 14:04	5/11/2016	14:04	34.5	30	96	28.5	58.0	6939.2	793.85	1549.2
	5/11/2016 15:47	5/11/2016	15:47	34	29.5	93	30	60.9	6119.8	700.10	2249.3
	5/11/2016 17:30	5/11/2016	17:30	33	28	90	30	60.4	6245.4	714.47	2963.8
	5/11/2016 17:31	5/11/2016	17:31		22				60.4	6.91	2970.7
Total CO ₂ Mass (lbs):											2970.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-109 Event 1	1/21/2016 12:47	1/21/2016	12:47	28	29	73	0	0.0				0
	1/21/2016 12:58	1/21/2016	12:58	28	29	73	0	0.0	0.0	0.00	0.0	
	1/21/2016 12:59	1/21/2016	12:59	33	34	73	0	0.0	0.0	0.00	0.0	
	1/21/2016 15:04	1/21/2016	15:04	33	34	73	3	6.1	383.7	43.89	43.9	
	1/21/2016 15:06	1/21/2016	15:06	35	36	73	8.5	17.8	23.9	2.73	46.6	
	1/21/2016 17:14	1/21/2016	17:14	35	37	65	8.5	17.9	2282.3	261.10	307.7	
	1/21/2016 17:18	1/21/2016	17:18		34				71.6	8.19	315.9	
SW-109 Event 2	1/27/2016 12:27	1/27/2016	12:27	29	29	82	0	0.0				315.9
	1/27/2016 12:36	1/27/2016	12:36	29	28.5	80	0	0.0	0.0	0.00	0.00	315.9
	1/27/2016 12:37	1/27/2016	12:37	34	33.5	80	3	6.2	3.1	0.35	316.3	
	1/27/2016 14:18	1/27/2016	14:18	33.5	34	76	4.5	9.2	777.3	88.93	405.2	
	1/27/2016 15:51	1/27/2016	15:51	33.5	34	76	5.5	11.3	953.8	109.12	514.3	
	1/27/2016 17:10	1/27/2016	17:10	32.5	32.5	71	5.5	11.2	888.7	101.67	616.0	
	1/27/2016 17:11	1/27/2016	17:11		30.5				11.2	1.28	617.3	
SW-109 Event 3	1/28/2016 11:27	1/28/2016	11:27	27	27	64	4	7.7				617.3
	1/28/2016 11:59	1/28/2016	11:59	27	27.5	64	4.5	8.7	262.3	30.00	647.3	
	1/28/2016 12:00	1/28/2016	12:00	33.5	33	64	10	20.8	14.7	1.68	649.0	
	1/28/2016 13:52	1/28/2016	13:52	34.5	34	69	9	18.8	2214.1	253.29	902.2	
	1/28/2016 15:07	1/28/2016	15:07	34.5	34	65	9	18.9	1411.5	161.47	1063.7	
	1/28/2016 17:13	1/28/2016	17:13	34.5	34	60	9	19.0	2381.9	272.49	1336.2	
	1/28/2016 17:14	1/28/2016	17:14		32				19.0	2.17	1338.4	
SW-109 Event 4	2/2/2016 8:12	2/2/2016	8:12	25.5	26	64	0	0.0				1338.4
	2/2/2016 8:35	2/2/2016	8:35	25.5	26	67	0	0.0	0.0	0.00	1338.4	
	2/2/2016 8:36	2/2/2016	8:36	35	34	67	4	8.4	4.2	0.48	1338.9	
	2/2/2016 10:25	2/2/2016	10:25	33.5	33.5	83	6.5	13.2	1180.0	134.99	1473.8	
	2/2/2016 12:34	2/2/2016	12:34	33	33	83	7	14.2	1769.3	202.41	1676.3	
	2/2/2016 14:34	2/2/2016	14:34	33	32.5	81	7.5	15.2	1765.0	201.92	1878.2	
	2/2/2016 14:35	2/2/2016	14:35		30				15.2	1.74	1879.9	
SW-109 Event 5	2/4/2016 7:18	2/4/2016	7:18	29	29	70	0	0.0				1879.9
	2/4/2016 7:43	2/4/2016	7:43	28.5	28.5	70	5.5	10.7	134.2	15.35	1895.3	
	2/4/2016 7:44	2/4/2016	7:44	33	32	70	7	14.4	12.6	1.44	1896.7	
	2/4/2016 10:59	2/4/2016	10:59	34	33.5	64	10	20.9	3435.0	392.96	2289.7	
	2/4/2016 14:08	2/4/2016	14:08	34	33.5	62	10	20.9	3947.3	451.57	2741.2	
	2/4/2016 14:10	2/4/2016	14:10		29				41.8	4.78	2746.0	
SW-109 Event 6	2/8/2016 7:36	2/8/2016	7:36	29	29	45	0	0.0				2746.0
	2/8/2016 8:07	2/8/2016	8:07	28	28.5	54	<2	0.0	0.0	0.00	2746.0	
	2/8/2016 8:08	2/8/2016	8:08	32.5	32.5	54	7	14.5	7.3	0.83	2746.8	
	2/8/2016 9:10	2/8/2016	9:10	32.5	32.5	62	7	14.4	896.6	102.57	2849.4	
	2/8/2016 9:11	2/8/2016	9:11	33	33	62	8.5	17.6	16.0	1.83	2851.2	
	2/8/2016 10:43	2/8/2016	10:43	33	33	68	8	16.5	1565.6	179.10	3030.4	
	2/8/2016 12:06	2/8/2016	12:06	33	33	71	8.5	17.4	1406.0	160.85	3191.2	
	2/8/2016 12:07	2/8/2016	12:07		29				17.4	1.99	3193.2	
SW-109 Event 7	2/9/2016 7:33	2/9/2016	7:33	31	31	42	6	12.4				3193.2
	2/9/2016 7:55	2/9/2016	7:55	30.5	30	46	6	12.3	271.3	31.04	3224.2	
	2/9/2016 7:56	2/9/2016	7:56	32	32	46	9	18.7	15.5	1.77	3226.0	
	2/9/2016 9:22	2/9/2016	9:22	32.5	32.5	53	8	16.6	1519.2	173.79	3399.8	
	2/9/2016 11:11	2/9/2016	11:11	32.5	32.5	57	8	16.5	1806.9	206.71	3606.5	
	2/9/2016 13:27	2/9/2016	13:27	32.5	32	58	8	16.5	2248.8	257.26	3863.8	
	2/9/2016 13:28	2/9/2016	13:28		29				16.5	1.89	3865.6	
SW-109 Event 8	2/12/2016 7:26	2/12/2016	7:26	30	29.5	61	7	14.0				3865.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/12/2016 7:44	2/12/2016	7:44	30	29	62	8	16.0		270.3	30.93	3896.6
	2/12/2016 7:45	2/12/2016	7:45	33	33	62	12	24.8		20.4	2.34	3898.9
	2/12/2016 8:48	2/12/2016	8:48	33.5	33	65	11	22.8		1500.4	171.65	4070.6
	2/12/2016 9:46	2/12/2016	9:46	33.5	33	73	10.5	21.6		1287.9	147.33	4217.9
	2/12/2016 9:53	2/12/2016	9:53	33.5	33	72	10	20.6		147.7	16.89	4234.8
	2/12/2016 9:54	2/12/2016	9:54		29					20.6	2.36	4237.1
Total CO ₂ Mass (lbs):											4237.1	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-110 Event 1	5/10/2016 9:42	5/10/2016	9:42	30.5	30.5	90	0	0.0				0
	5/10/2016 10:09	5/10/2016	10:09	30.5	30.5	86	0	0.0		0.0	0.00	0.0
	5/10/2016 12:40	5/10/2016	12:40	30.5	30.5	94	0	0.0		0.0	0.00	0.0
	5/10/2016 12:42	5/10/2016	12:42	35.5	35.5	94	0	0.0		0.0	0.00	0.0
	5/10/2016 15:07	5/10/2016	15:07	36.5	36	86	4.5	9.4		683.5	78.19	78.2
	5/10/2016 16:26	5/10/2016	16:26	36.5	36	82	5	10.5		787.7	90.11	168.3
	5/10/2016 18:00	5/10/2016	18:00	36.5	36	82	5.5	11.6		1037.8	118.72	287.0
	5/10/2016 18:01	5/10/2016	18:01	37.5	37	82	8	17.0		14.3	1.63	288.7
	5/11/2016 8:27	5/11/2016	8:27	37	36	88	12	25.2		18274.5	2090.60	2379.3
5/11/2016 8:29	5/11/2016	8:29		31.5					50.4	5.77	2385.0	
SW-110 Event 2	5/12/2016 9:05	5/12/2016	9:05	35	34	90	13	26.7				2385.0
	5/12/2016 10:01	5/12/2016	10:01	37	35.5	94	14	29.3		1567.3	179.30	2564.3
	5/12/2016 11:43	5/12/2016	11:43	37	35.5	103	13.5	28.0		2918.4	333.87	2898.2
	5/12/2016 13:39	5/12/2016	13:39	37	36	94	14	29.3		3319.0	379.69	3277.9
	5/12/2016 14:23	5/12/2016	14:23	37	36	100	14	29.1		1283.5	146.83	3424.7
	5/12/2016 16:11	5/12/2016	16:11	37	35.5	100	14	29.1		3141.6	359.40	3784.1
	5/12/2016 17:50	5/12/2016	17:50	37	35	94	14	29.3		2887.9	330.37	4114.5
	5/12/2016 17:52	5/12/2016	17:52		30					58.5	6.69	4121.2
	5/13/2016 11:18	5/13/2016	11:18	35	33	1000	25	31.4				4121.2
SW-110 Event 3	5/13/2016 11:27	5/13/2016	11:27	37.5	35	100	22.5	47.0		352.6	40.33	4161.5
	5/13/2016 13:21	5/13/2016	13:21	40	37.5	97	20	42.9		5122.0	585.96	4747.5
	5/13/2016 14:09	5/13/2016	14:09	40	37.5	99	20	42.8		2056.4	235.25	4982.7
	5/13/2016 15:18	5/13/2016	15:18	40	37.5	103	20	42.6		2947.8	337.23	5320.0
	5/13/2016 16:14	5/13/2016	16:14	40	37.5	101	20	42.7		2390.2	273.44	5593.4
	5/13/2016 17:52	5/13/2016	17:52	40	37.5	100	20	42.8		4188.7	479.18	6072.6
	5/13/2016 17:53	5/13/2016	17:53		31					42.8	4.89	6077.5
	5/16/2016 8:11	5/16/2016	8:11	29	25	78	21	40.9				6077.5
SW-110 Event 4	5/16/2016 8:21	5/16/2016	8:21	30.5	28	78	19	37.7		392.8	44.94	6122.4
	5/16/2016 8:22	5/16/2016	8:22	33.5	33	78	22	45.0		41.3	4.73	6127.1
	5/16/2016 9:34	5/16/2016	9:34	36	34	88	20	41.6		3119.4	356.86	6484.0
	5/16/2016 11:26	5/16/2016	11:26	36.5	34.5	96	18	37.4		4422.1	505.88	6989.9
	5/16/2016 12:11	5/16/2016	12:11	36.5	34.5	97	18	37.3		1680.2	192.21	7182.1
	5/16/2016 13:31	5/16/2016	13:31	37	35	95	17.5	36.5		2954.0	337.94	7520.0
	5/16/2016 14:27	5/16/2016	14:27	37	35	97	17.5	36.5		2043.8	233.81	7753.9
	5/16/2016 15:24	5/16/2016	15:24	37	35	97	17.5	36.5		2078.4	237.76	7991.6
	5/16/2016 15:27	5/16/2016	15:27		30					109.4	12.51	8004.1
Total CO ₂ Mass (lbs):											8004.1	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
<u>SW-111 Event 1</u>	5/11/2016 8:34	5/11/2016	8:34	33	33	88	0	0.0				0
	5/11/2016 9:54	5/11/2016	9:54	30.5	30.5	91	4.5	8.8		352.3	40.31	40.3
	5/11/2016 9:55	5/11/2016	9:55	35	35	91	8	16.4		12.6	1.44	41.8
	5/11/2016 12:11	5/11/2016	12:11	35	34.5	104	11.5	23.3		2704.1	309.35	351.1
	5/11/2016 12:12	5/11/2016	12:12	36	35	104	12.5	25.6		24.5	2.80	353.9
	5/11/2016 14:13	5/11/2016	14:13	36	35	97	14	28.9		3297.5	377.24	731.1
	5/11/2016 15:57	5/11/2016	15:57	35	34	97	15	30.6		3094.9	354.06	1085.2
	5/11/2016 18:02	5/11/2016	18:02	34.5	32.5	92	16	32.7		3956.1	452.57	1537.8
	5/11/2016 18:04	5/11/2016	18:04		24					65.3	7.47	1545.2
<u>SW-111 Event 2</u>	5/12/2016 9:02	5/12/2016	9:02	33	34	90	<2	0.0				1545.2
	5/12/2016 10:03	5/12/2016	10:03	31	30	94	10.5	20.6		628.6	71.91	1617.1
	5/12/2016 10:04	5/12/2016	10:04	35	34	94	16	32.8		26.7	3.05	1620.2
	5/12/2016 11:42	5/12/2016	11:42	36	34.5	103	16	32.8		3214.1	367.70	1987.9
	5/12/2016 13:38	5/12/2016	13:38	36	34	94	16	33.1		3823.8	437.44	2425.3
	5/12/2016 14:25	5/12/2016	14:25	36	34	100	17	35.0		1599.8	183.01	2608.4
	5/12/2016 16:13	5/12/2016	16:13	35.5	34	100	18	36.8		3878.3	443.68	3052.0
	5/12/2016 17:55	5/12/2016	17:55	34	32.5	93	18	36.5		3741.7	428.05	3480.1
	5/13/2016 8:12	5/13/2016	8:12	33	30	80	21	42.7		33939.4	3882.67	7362.8
	5/13/2016 8:13	5/13/2016	8:13	35	32	80	23	47.7		45.2	5.17	7367.9
	5/13/2016 8:37	5/13/2016	8:37	36	32.5	80	24	50.3		1176.6	134.60	7502.5
	5/13/2016 9:51	5/13/2016	9:51	36	32.5	91	24	49.8		3704.0	423.73	7926.3
	5/13/2016 11:14	5/13/2016	11:14	36	32	100	23.5	48.3		4072.8	465.92	8392.2
	5/13/2016 12:59	5/13/2016	12:59	36	33	95	23	47.5		5034.0	575.89	8968.1
	5/13/2016 13:00	5/13/2016	13:00		22					47.5	5.44	8973.5
	Total CO ₂ Mass (lbs):											8973.5

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-112 Event 1	1/26/2016 9:03	1/26/2016	9:03	28	27	60	0	0.0			0
	1/26/2016 9:59	1/26/2016	9:59	25	24	66	5	9.4	262.8	30.07	30.1
	1/26/2016 10:00	1/26/2016	10:00	31	29	66	17	34.3	21.8	2.50	32.6
	1/26/2016 12:13	1/26/2016	12:13	30	27	77	19	37.5	4771.4	545.84	578.4
	1/26/2016 14:20	1/26/2016	14:20	30	26	77	20.5	40.4	4947.3	565.97	1144.4
	1/26/2016 15:07	1/26/2016	15:07	29.5	25.5	77	20.5	40.2	1895.0	216.79	1361.2
	1/26/2016 15:08	1/26/2016	15:08		19				40.2	4.60	1365.8
SW-112 Event 2	2/8/2016 7:32	2/8/2016	7:32	27.5	27.5	44	4	7.9			1365.8
	2/8/2016 8:11	2/8/2016	8:11	26	25	55	10	19.2	529.2	60.54	1426.3
	2/8/2016 8:12	2/8/2016	8:12	29	27	55	14	27.9	23.6	2.69	1429.0
	2/8/2016 9:14	2/8/2016	9:14	28.5	27	66	16	31.4	1836.6	210.11	1639.1
	2/8/2016 9:15	2/8/2016	9:15	30	28	66	18.5	36.9	34.1	3.90	1643.0
	2/8/2016 10:47	2/8/2016	10:47	30	27	72	20	39.6	3520.0	402.68	2045.7
	2/8/2016 12:11	2/8/2016	12:11	30	26	73	21	41.6	3411.2	390.24	2435.9
	2/8/2016 13:19	2/8/2016	13:19	30	26	74	22	43.5	2893.4	331.00	2766.9
	2/8/2016 14:43	2/8/2016	14:43	29	25.5	72	22	43.1	3638.2	416.21	3183.1
	2/8/2016 14:56	2/8/2016	14:56	29	25.5	72	22	43.1	560.4	64.11	3247.3
	2/8/2016 14:57	2/8/2016	14:57		20				43.1	4.93	3252.2
SW-112 Event 3	2/11/2016 7:25	2/11/2016	7:25	28	29	40	0	0.0			3252.2
	2/11/2016 7:47	2/11/2016	7:47	26	25	42	10	19.5	214.2	24.51	3276.7
	2/11/2016 7:48	2/11/2016	7:48	29	28	42	14	28.3	23.9	2.73	3279.4
	2/11/2016 9:16	2/11/2016	9:16	32	28	64	16	32.7	2681.6	306.78	3586.2
	2/11/2016 12:18	2/11/2016	12:18	33.5	28.5	78	26	53.2	7817.7	894.34	4480.5
	2/11/2016 13:12	2/11/2016	13:12	33	27	77	27	55.0	2923.2	334.42	4815.0
	2/11/2016 13:13	2/11/2016	13:13		21				55.0	6.30	4821.3
Total CO ₂ Mass (lbs):											4821.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-113 Event 1	5/10/2016 11:20	5/10/2016	11:20	28	29	94	7	13.3			0
	5/10/2016 12:45	5/10/2016	12:45	26.5	26	94	13	24.2	1593.3	182.27	182.3
	5/10/2016 12:46	5/10/2016	12:46	30	30	94	19	36.9	30.5	3.49	185.8
	5/10/2016 15:10	5/10/2016	15:10	30.5	28.5	86	22.5	44.2	5841.1	668.22	854.0
	5/10/2016 15:11	5/10/2016	15:11	33	31	86	27	54.6	49.4	5.65	859.6
	5/10/2016 16:35	5/10/2016	16:35	34	30.5	82	28	57.4	4702.8	538.00	1397.6
	5/10/2016 16:37	5/10/2016	16:37	36	31.5	82	30	62.8	120.2	13.75	1411.4
	5/10/2016 18:06	5/10/2016	18:06	35.5	31	82	30	62.5	5572.8	637.53	2048.9
	5/10/2016 18:07	5/10/2016	18:07		19				62.5	7.15	2056.1
SW-113 Event 2	5/13/2016 7:58	5/13/2016	7:58	30	30	82	6	11.8			2056.1
	5/13/2016 8:28	5/13/2016	8:28	27.5	27.5	82	13.5	25.7	562.8	64.38	2120.4
	5/13/2016 8:29	5/13/2016	8:29	33	32.5	82	20	40.6	33.2	3.79	2124.2
	5/13/2016 10:13	5/13/2016	10:13	32	30	91	22.5	44.8	4438.2	507.73	2632.0
	5/13/2016 11:09	5/13/2016	11:09	32	29.5	97	24	47.5	2583.5	295.56	2927.5
	5/13/2016 12:47	5/13/2016	12:47	31.5	28.5	96	24.5	48.3	4692.2	536.79	3464.3
	5/13/2016 12:48	5/13/2016	12:48		21				48.3	5.52	3469.8
SW-113 Event 3	5/16/2016 7:58	5/16/2016	7:58	30	30	79	5	9.8			3469.8
	5/16/2016 8:15	5/16/2016	8:15	27	27.5	80	12	22.8	277.3	31.73	3501.6
	5/16/2016 8:16	5/16/2016	8:16	32.5	32	80	18	36.4	29.6	3.38	3504.9
	5/16/2016 9:31	5/16/2016	9:31	31.5	30	88	22	43.7	3002.1	343.44	3848.4
	5/16/2016 11:19	5/16/2016	11:19	31	28	95	24	47.1	4899.4	560.49	4408.9
	5/16/2016 11:20	5/16/2016	11:20	34	30	95	27	54.7	50.9	5.82	4414.7
	5/16/2016 12:07	5/16/2016	12:07	33.5	29.5	95	28	56.4	2610.6	298.65	4713.3
	5/16/2016 12:08	5/16/2016	12:08		19				56.4	6.45	4719.8
Total CO ₂ Mass (lbs):											4719.8

<u>Sparge Event</u>	<u>Date + Time</u>	<u>Date</u>	<u>Time</u>	<u>P at Panel (psig)</u>	<u>P at Well (psig)</u>	<u>Temp (°F)</u>	<u>Rotameter Reading (scfm)</u>	<u>Flow (scfm)</u>	<u>Volume of CO₂ (scf)</u>	<u>Mass of CO₂ (lb)</u>	<u>Cum. Mass (lb)</u>
<u>SW-116 Event 1</u>	3/7/2016 7:13	3/7/2016	7:13	30.5	29.5	53	0	0.0			0
	3/7/2016 7:29	3/7/2016	7:29	28	27	56	6	11.8	94.4	10.80	10.8
	3/7/2016 7:31	3/7/2016	7:31	34	32	56	10	21.0	32.8	3.76	14.6
	3/7/2016 10:06	3/7/2016	10:06	31.5	27.5	78	18	36.1	4425.2	506.24	520.8
	3/7/2016 10:07	3/7/2016	10:07	35	31.5	78	21	43.7	39.9	4.56	525.4
	3/7/2016 11:23	3/7/2016	11:23	35	31.5	82	22	45.6	3391.0	387.94	913.3
	3/7/2016 12:30	3/7/2016	12:30	35	31.5	82	22	45.6	3053.3	349.29	1262.6
	3/7/2016 12:31	3/7/2016	12:31		19				45.6	5.21	1267.8
Total CO ₂ Mass (lbs):											1267.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-117 Event 1	2/29/2016 7:42	2/29/2016	7:42	30	29	62	0	0.0			0
	2/29/2016 8:27	2/29/2016	8:27	27.5	26.5	66	5	9.7	217.8	24.92	24.9
	2/29/2016 8:28	2/29/2016	8:28	33	32	66	9	18.5	14.1	1.61	26.5
	2/29/2016 10:19	2/29/2016	10:19	33	31	77	13	26.5	2499.9	285.99	312.5
	2/29/2016 13:27	2/29/2016	13:27	33	30	84	15	30.4	5346.0	611.58	924.1
	2/29/2016 14:53	2/29/2016	14:53	32.5	29.5	86	16	32.2	2689.1	307.63	1231.7
	2/29/2016 16:19	2/29/2016	16:19	32.5	29	87	16	32.1	2764.8	316.29	1548.0
	2/29/2016 17:07	2/29/2016	17:07	32	29	85	16.5	33.0	1563.7	178.89	1726.9
	2/29/2016 17:08	2/29/2016	17:08		19				33.0	3.78	1730.7
SW-117 Event 2	3/7/2016 12:34	3/7/2016	12:34	32	32	82	0	0.0			1730.7
	3/7/2016 12:40	3/7/2016	12:40	30.5	30	82	<2	0.0	0.0	0.00	1730.7
	3/7/2016 12:43	3/7/2016	12:43	34	32.5	82	4	8.2	12.3	1.41	1732.1
	3/7/2016 15:00	3/7/2016	15:00	32	30	84	11	22.0	2071.2	236.94	1969.0
	3/7/2016 16:35	3/7/2016	16:35	32	29	80	12	24.1	2192.9	250.86	2219.9
	3/7/2016 16:36	3/7/2016	16:36		19				24.1	2.76	2222.7
SW-117 Event 3	3/23/2016 13:19	3/23/2016	13:19	30	30	88	0	0.0			2222.7
	3/23/2016 14:20	3/23/2016	14:20	30	29	90	5	9.7	297.1	33.99	2256.7
	3/23/2016 16:01	3/23/2016	16:01	30	27.5	90	7.5	14.6	1229.8	140.69	2397.3
	3/23/2016 16:02	3/23/2016	16:02		19				14.6	1.67	2399.0
SW-117 Event 4	3/24/2016 7:29	3/24/2016	7:29	30	30	58	0	0.0			2399.0
	3/24/2016 9:45	3/24/2016	9:45	29	26	87	6	11.6	788.0	90.15	2489.2
	3/24/2016 9:46	3/24/2016	9:46	33	31	87	9	18.2	14.9	1.70	2490.9
	3/24/2016 11:18	3/24/2016	11:18	33	30	89	12	24.2	1948.3	222.89	2713.8
	3/24/2016 13:18	3/24/2016	13:18	33	28.5	89	14	28.2	3143.8	359.65	3073.4
	3/24/2016 13:19	3/24/2016	13:19		19				28.2	3.23	3076.6
SW-117 Event 5	3/29/2016 7:59	3/29/2016	7:59	32	31	62	0	0.0			3076.6
	3/29/2016 9:11	3/29/2016	9:11	30	30	78	8	15.8	567.5	64.92	3141.6
	3/29/2016 13:53	3/29/2016	13:53	29	29	90	10	19.3	4938.4	564.96	3706.5
	3/29/2016 16:45	3/29/2016	16:45	29	27.5	76	12	23.4	3670.6	419.92	4126.4
	3/29/2016 16:46	3/29/2016	16:46		19				23.4	2.68	4129.1
Total CO ₂ Mass (lbs):											4129.1

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-118 Event 1	3/17/2016 11:54	3/17/2016	11:54	29	29	80	5	9.7			0
	3/17/2016 11:57	3/17/2016	11:57	27	27	80	10	19.0	43.1	4.93	4.9
	3/17/2016 11:58	3/17/2016	11:58	32	31	80	18	36.2	27.6	3.16	8.1
	3/17/2016 13:29	3/17/2016	13:29	32	29	80	22	44.2	3659.8	418.68	426.8
	3/17/2016 15:55	3/17/2016	15:55	32	28	77	24	48.4	6762.6	773.65	1200.4
	3/17/2016 16:28	3/17/2016	16:28	32	27	75	26	52.5	1665.4	190.52	1390.9
	3/17/2016 16:29	3/17/2016	16:29		18				52.5	6.01	1396.9
Total CO ₂ Mass (lbs):											1396.9

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-123 Event 1	3/10/2016 7:25	3/10/2016	7:25	26	26	75	0	0.0				0
	3/10/2016 7:26	3/10/2016	7:26	29	29	75	6	11.7		5.9	0.67	0.7
	3/10/2016 7:57	3/10/2016	7:57	26.5	26.5	76	10	18.9		475.3	54.38	55.0
	3/10/2016 7:58	3/10/2016	7:58	30	29	76	14	27.6		23.3	2.66	57.7
	3/10/2016 9:09	3/10/2016	9:09	30	27	80	19	37.4		2307.8	264.01	321.7
	3/10/2016 10:57	3/10/2016	10:57	30	26	86	22	43.0		4341.1	496.62	818.3
	3/10/2016 12:30	3/10/2016	12:30	30	26	89	25	48.8		4267.5	488.20	1306.5
	3/10/2016 13:52	3/10/2016	13:52	30	25.5	89	27	52.7		4157.5	475.62	1782.2
	3/10/2016 15:19	3/10/2016	15:19	29.5	25	88	28	54.3		4654.2	532.44	2314.6
	3/10/2016 16:54	3/10/2016	16:54	29	25	86	29	56.1		5244.3	599.95	2914.5
3/10/2016 16:55	3/10/2016	16:55		19					56.1	6.41	2921.0	
SW-123 Event 2	3/18/2016 7:42	3/18/2016	7:42	32	30	67	14	28.5				2921.0
	3/18/2016 8:45	3/18/2016	8:45	32	30	68	19	38.7		2115.6	242.03	3163.0
	3/18/2016 9:55	3/18/2016	9:55	31	28	68	25	50.3		3113.5	356.19	3519.2
	3/18/2016 12:42	3/18/2016	12:42	30	28	75	27	53.4		8655.8	990.22	4509.4
	3/18/2016 12:43	3/18/2016	12:43		19					53.4	6.10	4515.5
SW-123 Event 3	3/24/2016 13:33	3/24/2016	13:33	30	27	89	12	23.4				4515.5
	3/24/2016 13:35	3/24/2016	13:35	32	30	89	18	35.9		59.3	6.78	4522.3
	3/24/2016 15:18	3/24/2016	15:18	30.5	27	90	23	45.1		4168.9	476.92	4999.2
	3/24/2016 16:34	3/24/2016	16:34	30	25	87	24	46.9		3494.1	399.73	5398.9
	3/24/2016 16:35	3/24/2016	16:35		18					46.9	5.36	5404.3
SW-123 Event 4	3/28/2016 7:42	3/28/2016	7:42	30	28	70	10	19.9				5404.3
	3/28/2016 10:18	3/28/2016	10:18	28	26	81	14	26.9		3645.4	417.03	5821.3
	3/28/2016 10:19	3/28/2016	10:19	32	30	81	19	38.2		32.5	3.72	5825.0
	3/28/2016 12:19	3/28/2016	12:19	32	26	86	26	52.0		5409.3	618.82	6443.9
	3/28/2016 12:22	3/28/2016	12:22		19					156.0	17.84	6461.7
SW-123 Event 5	3/30/2016 8:00	3/30/2016	8:00	30	29	60	10	20.1				6461.7
	3/30/2016 9:18	3/30/2016	9:18	29	27	75	18	35.2		2153.6	246.37	6708.1
	3/30/2016 13:03	3/30/2016	13:03	27	25	85	22	41.6		8633.3	987.65	7695.7
	3/30/2016 13:04	3/30/2016	13:04		19					41.6	4.76	7700.5
SW-123 Event 6	3/31/2016 8:15	3/31/2016	8:15	33	30	78	13	26.5				7700.5
	3/31/2016 12:15	3/31/2016	12:15	31	26	92	24	47.2		8840.4	1011.34	8711.8
	3/31/2016 12:16	3/31/2016	12:16		19					47.2	5.40	8717.2
SW-123 Event 7	4/1/2016 8:26	4/1/2016	8:26	33	31	77	14	28.5				8717.2
	4/1/2016 12:22	4/1/2016	12:22	31	25	92	26	51.1		9400.7	1075.44	9792.7
	4/1/2016 12:23	4/1/2016	12:23		19					51.1	5.85	9798.5
SW-123 Event 8	4/4/2016 8:16	4/4/2016	8:16	33	29	64	13	26.8				9798.5
	4/4/2016 9:02	4/4/2016	9:02	31	27	72	18	36.1		1447.1	165.55	9964.1
	4/4/2016 10:12	4/4/2016	10:12	30	26	80	22	43.3		2777.1	317.70	10281.8
	4/4/2016 14:04	4/4/2016	14:04	29.5	24	92	26	50.3		10850.6	1241.31	11523.1
	4/4/2016 14:05	4/4/2016	14:05		19					50.3	5.75	11528.8
SW-123 Event 9	4/5/2016 8:18	4/5/2016	8:18	33	29	72	16	32.8				11528.8
	4/5/2016 12:23	4/5/2016	12:23	30	25	88	26	50.7		10231.5	1170.48	12699.3
	4/5/2016 12:24	4/5/2016	12:24		19					50.7	5.81	12705.1
SW-123 Event 10	4/6/2016 8:05	4/6/2016	8:05	33	29	72	18	36.9				12705.1
	4/6/2016 9:23	4/6/2016	9:23	33	28	73	22	45.0		3193.7	365.36	13070.5
	4/6/2016 14:13	4/6/2016	14:13	29	24	80	26	50.6		13858.0	1585.35	14655.8
	4/6/2016 14:14	4/6/2016	14:14		19					50.6	5.78	14661.6
SW-123 Event 11	4/7/2016 7:45	4/7/2016	7:45	33	29	68	18	37.0				14661.6
	4/7/2016 12:13	4/7/2016	12:13	29.5	24.5	85	26	50.6		11740.9	1343.16	16004.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	4/7/2016 12:14	4/7/2016	12:14		19					50.6	5.79	16010.6
<u>SW-123 Event 12</u>	5/10/2016 9:18	5/10/2016	9:18	30	29	91	0	0.0				16010.6
	5/10/2016 10:07	5/10/2016	10:07	26	24	86	18	33.6		822.4	94.09	16104.6
	5/10/2016 12:37	5/10/2016	12:37	25.5	23	93	22	40.5		5555.7	635.57	16740.2
	5/10/2016 12:38	5/10/2016	12:38	29	25	93	28	53.8		47.1	5.39	16745.6
	5/10/2016 15:18	5/10/2016	15:18	29	24.5	84	30	58.1		8950.9	1023.98	17769.6
	5/10/2016 16:31	5/10/2016	16:31	29	24.5	81	30	58.3		4247.9	485.96	18255.6
	5/10/2016 18:03	5/10/2016	18:03	29	24	79	30.5	59.4		5411.1	619.03	18874.6
	5/10/2016 18:04	5/10/2016	18:04		19					59.4	6.79	18881.4
<u>SW-123 Event 13</u>	5/11/2016 8:18	5/11/2016	8:18	30	27	91	13	25.3				18881.4
	5/11/2016 9:39	5/11/2016	9:39	28	24	90	27	51.4		3106.3	355.37	19236.7
	5/11/2016 9:40	5/11/2016	9:40	30	26	90	30	58.4		54.9	6.28	19243.0
	5/11/2016 11:54	5/11/2016	11:54	29	23.5	94	31	59.5		7901.4	903.92	20146.9
	5/11/2016 11:55	5/11/2016	11:55	28.5	23	94	30	57.2		58.4	6.68	20153.6
	5/11/2016 13:59	5/11/2016	13:59	28	23	93	30	56.9		7079.1	809.85	20963.5
	5/11/2016 15:45	5/11/2016	15:45	28	23	93	30	56.9		6036.5	690.58	21654.0
	5/11/2016 17:39	5/11/2016	17:39	27.5	22.5	89	30.5	57.8		6538.9	748.04	22402.1
	5/11/2016 17:40	5/11/2016	17:40		18.5					57.8	6.61	22408.7
<u>SW-123 Event 14</u>	5/13/2016 7:56	5/13/2016	7:56	30	29	83	0	0.0				22408.7
	5/13/2016 8:25	5/13/2016	8:25	26	24	82	16	30.0		434.3	49.68	22458.4
	5/13/2016 8:26	5/13/2016	8:26	32	29	82	28	56.2		43.1	4.93	22463.3
	5/13/2016 9:48	5/13/2016	9:48	31	27	86	31	61.3		4817.6	551.13	23014.4
	5/13/2016 9:49	5/13/2016	9:49	29	25.5	86	30	58.0		59.7	6.82	23021.3
	5/13/2016 11:08	5/13/2016	11:08	29	24.5	94	30	57.6		4564.8	522.21	23543.5
	5/13/2016 12:42	5/13/2016	12:42	28.5	24	90	30	57.4		5405.5	618.39	24161.9
	5/13/2016 12:44	5/13/2016	12:44		19					114.9	13.14	24175.0
Total CO ₂ Mass (lbs):											24175.0	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-126 Event 1	1/13/2016 8:01	1/13/2016	8:01	22	22	42	0	0.0			0
	1/13/2016 8:11	1/13/2016	8:11	22	22	46	0	0.0	0.0	0.00	0.0
	1/13/2016 8:12	1/13/2016	8:12	26	26	46	<2	0.0	0.0	0.00	0.0
	1/13/2016 9:57	1/13/2016	9:57	25.5	25	65	6	11.3	595.7	68.15	68.1
	1/13/2016 11:19	1/13/2016	11:19	25.5	25	68	7.5	14.1	1045.0	119.55	187.7
	1/13/2016 12:37	1/13/2016	12:37	25	24	68	8.5	15.9	1172.6	134.15	321.8
	1/13/2016 12:38	1/13/2016	12:38		23.5				15.9	1.82	323.7
SW-126 Event 2	1/14/2016 7:37	1/14/2016	7:37	24	24	46	0	0.0			323.7
	1/14/2016 7:59	1/14/2016	7:59	23.5	23	48	0	0.0	0.0	0.00	323.7
	1/14/2016 8:00	1/14/2016	8:00	27	27	48	5	9.8	4.9	0.56	324.2
	1/14/2016 9:07	1/14/2016	9:07	27	26.5	60	7	13.6	782.2	89.49	413.7
	1/14/2016 11:18	1/14/2016	11:18	26.5	26	69	10	19.1	2136.9	244.46	658.2
	1/14/2016 12:42	1/14/2016	12:42	26.5	26	68	10.5	20.0	1643.0	187.96	846.1
	1/14/2016 12:44	1/14/2016	12:44		21				40.1	4.59	850.7
SW-126 Event 3	1/27/2016 7:24	1/27/2016	7:24	24.5	25	62	0	0.0			850.7
	1/27/2016 7:47	1/27/2016	7:47	24	24	62	4	7.4	85.6	9.79	860.5
	1/27/2016 9:08	1/27/2016	9:08	24	24	64	6	11.1	752.6	86.10	946.6
	1/27/2016 10:39	1/27/2016	10:39	23	23	73	6.5	11.8	1044.1	119.44	1066.0
	1/27/2016 10:42	1/27/2016	10:42	28	27	73	13.5	26.1	56.9	6.51	1072.6
	1/27/2016 12:01	1/27/2016	12:01	28	27	73	13.5	26.1	2063.3	236.04	1308.6
	1/27/2016 13:42	1/27/2016	13:42	27.5	26	73	14.5	27.9	2727.1	311.98	1620.6
	1/27/2016 13:47	1/27/2016	13:47		18.5				139.4	15.95	1636.5
SW-126 Event 4	2/3/2016 7:27	2/3/2016	7:27	26	27	71	0	0.0			1636.5
	2/3/2016 7:41	2/3/2016	7:41	26	25	71	<2	0.0	0.0	0.00	1636.5
	2/3/2016 9:18	2/3/2016	9:18	25	24.5	72	4	7.5	362.1	41.42	1677.9
	2/3/2016 10:52	2/3/2016	10:52	24.5	24	79	6	11.1	870.3	99.56	1777.5
	2/3/2016 12:18	2/3/2016	12:18	24	23	76	9	16.5	1185.5	135.62	1913.1
	2/3/2016 12:19	2/3/2016	12:19		19				16.5	1.89	1915.0
SW-126 Event 5	2/8/2016 7:29	2/8/2016	7:29	25	25	47	0	0.0			1915.0
	2/8/2016 8:02	2/8/2016	8:02	25	25	54	<2	0.0	0.0	0.00	1915.0
	2/8/2016 8:03	2/8/2016	8:03	29	29	54	8	16.0	8.0	0.91	1915.9
	2/8/2016 9:15	2/8/2016	9:15	30	29	63	10	20.0	1294.3	148.06	2064.0
	2/8/2016 10:59	2/8/2016	10:59	29.5	28	68	12	23.7	2274.3	260.18	2324.2
	2/8/2016 11:00	2/8/2016	11:00		21				23.7	2.72	2326.9
	Total CO ₂ Mass (lbs):										

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-127 Event 1	2/18/2016 7:45	2/18/2016	7:45	32.5	32	49	0	0.0			0
	2/18/2016 8:02	2/18/2016	8:02	31.5	29.5	54	5.5	11.3	95.9	10.97	11.0
	2/18/2016 8:05	2/18/2016	8:05	34	31	54	7.5	15.8	40.6	4.65	15.6
	2/18/2016 9:10	2/18/2016	9:10	34	30	60	8	16.8	1058.3	121.07	136.7
	2/18/2016 10:44	2/18/2016	10:44	34	29.5	64	9.5	19.8	1719.2	196.68	333.4
	2/18/2016 12:29	2/18/2016	12:29	34	29	69	10	20.8	2130.6	243.74	577.1
	2/18/2016 13:16	2/18/2016	13:16	34	29	70	10	20.7	975.3	111.58	688.7
	2/18/2016 14:37	2/18/2016	14:37	33.5	28.5	70	10	20.6	1675.6	191.69	880.4
	2/18/2016 17:02	2/18/2016	17:02	33.5	24.5	66	11	22.8	3147.8	360.11	1240.5
2/18/2016 17:03	2/18/2016	17:03		22.5				22.8	2.61	1243.1	
SW-127 Event 2	2/19/2016 7:13	2/19/2016	7:13	31	31	50	4	8.2			1243.1
	2/19/2016 7:29	2/19/2016	7:29	30	27	52	7	14.2	178.8	20.45	1263.5
	2/19/2016 7:30	2/19/2016	7:30	37	32	52	11.5	25.0	19.6	2.24	1265.8
	2/19/2016 8:50	2/19/2016	8:50	37	29	62	15	32.3	2294.5	262.49	1528.3
	2/19/2016 9:28	2/19/2016	9:28	37	29	62	15	32.3	1228.4	140.53	1668.8
	2/19/2016 9:30	2/19/2016	9:30		22.5				64.7	7.40	1676.2
SW-127 Event 3	2/22/2016 7:24	2/22/2016	7:24	29	28.5	62	<2	0.0			1676.2
	2/22/2016 7:36	2/22/2016	7:36	29	27	63	4	7.9	47.4	5.43	1681.6
	2/22/2016 7:37	2/22/2016	7:37	38	34	63	10	21.7	14.8	1.70	1683.3
	2/22/2016 9:05	2/22/2016	9:05	37.5	32	65	12.5	27.0	2144.1	245.29	1928.6
	2/22/2016 11:18	2/22/2016	11:18	37.5	30	72	13.5	28.9	3719.9	425.56	2354.2
	2/22/2016 13:45	2/22/2016	13:45	37	29.5	72	14	29.9	4323.5	494.61	2848.8
	2/22/2016 15:02	2/22/2016	15:02	37	29	74	14.5	30.9	2339.1	267.59	3116.4
	2/22/2016 15:03	2/22/2016	15:03		24				30.9	3.53	3119.9
Total CO ₂ Mass (lbs):											3119.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-128 Event 1	1/21/2016 7:50	1/21/2016	7:50	27	29	50	0	0.0			0
	1/21/2016 8:01	1/21/2016	8:01	26	27.5	51	0	0.0	0.0	0.00	0.0
	1/21/2016 8:02	1/21/2016	8:02	36	35	51	12	25.9	12.9	1.48	1.5
	1/21/2016 9:07	1/21/2016	9:07	35.5	34	64	13.5	28.6	1771.1	202.62	204.1
	1/21/2016 12:53	1/21/2016	12:53	33	29.5	64	19.5	40.3	7781.5	890.20	1094.3
	1/21/2016 15:18	1/21/2016	15:18	32	28.5	63	22	45.0	6179.7	706.95	1801.3
	1/21/2016 16:54	1/21/2016	16:54	32	28.5	61	22.5	46.1	4371.4	500.08	2301.3
	1/21/2016 16:55	1/21/2016	16:55		23				46.1	5.27	2306.6
Total CO ₂ Mass (lbs):											2306.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-129 Event 1	1/27/2016 7:27	1/27/2016	7:27	27.5	24.5	61	0	0.0				0
	1/27/2016 7:48	1/27/2016	7:48	27.5	24.5	61	0	0.0		0.0	0.00	0.0
	1/27/2016 7:49	1/27/2016	7:49	28.5	26.5	61	4	7.9		3.9	0.45	0.5
	1/27/2016 9:07	1/27/2016	9:07	29.5	26.5	64	4	7.9		617.0	70.59	71.0
	1/27/2016 10:37	1/27/2016	10:37	29.5	26.5	73	4	7.9		711.9	81.44	152.5
	1/27/2016 10:42	1/27/2016	10:42	33	29	73	10	20.5		70.8	8.10	160.6
	1/27/2016 12:02	1/27/2016	12:02	34	30	73	10	20.7		1645.8	188.28	348.9
	1/27/2016 13:44	1/27/2016	13:44	34	29	73	12	24.8		2320.3	265.45	614.3
	1/27/2016 13:47	1/27/2016	13:47		24					74.4	8.52	622.8
SW-129 Event 2	2/9/2016 12:00	2/9/2016	12:00	27.5	27.5	63	0	0.0				622.8
	2/9/2016 12:06	2/9/2016	12:06	33	33	63	4	8.3		24.8	2.84	625.7
	2/9/2016 13:33	2/9/2016	13:33	33	32	64	10	20.6		1257.7	143.88	769.5
	2/9/2016 15:33	2/9/2016	15:33	32.5	31	64	12	24.6		2717.3	310.85	1080.4
	2/9/2016 17:00	2/9/2016	17:00	32	30.5	63	14	28.6		2317.0	265.07	1345.5
	2/9/2016 17:01	2/9/2016	17:01		27					28.6	3.27	1348.7
SW-129 Event 3	2/11/2016 12:18	2/11/2016	12:18	27.5	27.5	72	0	0.0				1348.7
	2/11/2016 12:22	2/11/2016	12:22	34	33	72	6.5	13.5		26.9	3.08	1351.8
	2/11/2016 13:46	2/11/2016	13:46	33	31.5	74	11	22.5		1509.6	172.70	1524.5
	2/11/2016 15:11	2/11/2016	15:11	32	31	73	12.5	25.3		2031.3	232.38	1756.9
	2/11/2016 16:16	2/11/2016	16:16	32	30.5	72	14	28.4		1744.5	199.57	1956.5
	2/11/2016 17:07	2/11/2016	17:07	32	30.5	68	14	28.5		1449.7	165.85	2122.3
	2/11/2016 17:08	2/11/2016	17:08		26					28.5	3.26	2125.6
	Total CO ₂ Mass (lbs):											2125.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-130 Event 1	2/2/2016 8:25	2/2/2016	8:25	26	27	62	0	0.0			0
	2/2/2016 8:44	2/2/2016	8:44	26	26	63	0	0.0	0.0	0.00	0.0
	2/2/2016 8:47	2/2/2016	8:47	32	31.5	63	6	12.3	18.4	2.10	2.1
	2/2/2016 10:13	2/2/2016	10:13	32	30.5	72	7.5	15.2	1181.0	135.11	137.2
	2/2/2016 12:22	2/2/2016	12:22	31.5	29.5	74	9.5	19.1	2212.8	253.15	390.4
	2/2/2016 14:20	2/2/2016	14:20	31	28.5	74	10.5	21.0	2366.7	270.75	661.1
	2/2/2016 14:22	2/2/2016	14:22		24				42.0	4.81	665.9
SW-130 Event 2	2/17/2016 7:35	2/17/2016	7:35	31.5	31.5	52	0	0.0			665.9
	2/17/2016 7:47	2/17/2016	7:47	30.5	30	55	3	6.1	36.5	4.17	670.1
	2/17/2016 8:13	2/17/2016	8:13	32	32.5	55	6	12.4	239.8	27.43	697.5
	2/17/2016 10:19	2/17/2016	10:19	33	32	66	10	20.6	2077.1	237.62	935.1
	2/17/2016 12:50	2/17/2016	12:50	32.5	30	71	12.5	25.5	3480.4	398.15	1333.3
	2/17/2016 14:00	2/17/2016	14:00	32	29	72	13.5	27.4	1849.7	211.61	1544.9
	2/17/2016 15:05	2/17/2016	15:05	32	28.5	72	14	28.4	1811.1	207.19	1752.1
	2/17/2016 16:15	2/17/2016	16:15	32	28	71	15	30.4	2057.9	235.42	1987.5
	2/17/2016 16:16	2/17/2016	16:16		23.5				30.4	3.48	1991.0
SW-130 Event 3	2/24/2016 7:39	2/24/2016	7:39	32	33	72	0	0.0			1991.0
	2/24/2016 7:51	2/24/2016	7:51	30	30	72	<2	0.0	0.0	0.00	1991.0
	2/24/2016 7:52	2/24/2016	7:52	34	34	72	6	12.4	6.2	0.71	1991.7
	2/24/2016 8:58	2/24/2016	8:58	34	34	74	6	12.4	818.9	93.69	2085.4
	2/24/2016 9:53	2/24/2016	9:53	34	33.5	80	7	14.4	736.3	84.23	2169.6
	2/24/2016 11:29	2/24/2016	11:29	34	33.5	80	7.5	15.4	1429.6	163.55	2333.2
	2/24/2016 12:40	2/24/2016	12:40	34	33.5	83	8	16.4	1128.6	129.11	2462.3
	2/24/2016 13:56	2/24/2016	13:56	34	33.5	86	8	16.3	1243.5	142.26	2604.6
	2/24/2016 15:16	2/24/2016	15:16	33.5	33	84	8.5	17.3	1345.6	153.94	2758.5
	2/24/2016 16:01	2/24/2016	16:01	33.5	33	83	8.5	17.3	779.0	89.11	2847.6
	2/24/2016 16:02	2/24/2016	16:02		27				17.3	1.98	2849.6
Total CO ₂ Mass (lbs):											2849.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-131 Event 1	2/16/2016 7:30	2/16/2016	7:30	31	30	60	0	0.0			0
	2/16/2016 8:01	2/16/2016	8:01	30.5	30	61	<2	0.0	0.0	0.00	0.0
	2/16/2016 8:04	2/16/2016	8:04	36	35	61	7.5	16.0	24.0	2.75	2.7
	2/16/2016 9:11	2/16/2016	9:11	35.5	34	64	11	23.3	1317.4	150.72	153.5
	2/16/2016 10:57	2/16/2016	10:57	34.5	33	68	14.5	30.3	2840.7	324.97	478.4
	2/16/2016 12:19	2/16/2016	12:19	34	31.5	70	16	33.2	2602.5	297.73	776.2
	2/16/2016 15:04	2/16/2016	15:04	33.5	31	70	18	37.1	5801.8	663.72	1439.9
	2/16/2016 16:07	2/16/2016	16:07	33	30	76	18.5	37.7	2358.9	269.86	1709.8
	2/16/2016 16:57	2/16/2016	16:57	33	29	73	19	38.9	1915.7	219.16	1928.9
2/16/2016 16:59	2/16/2016	16:59		24				77.8	8.90	1937.8	
SW-131 Event 2	2/18/2016 7:42	2/18/2016	7:42	31	32	49	<2	0.0			1937.8
	2/18/2016 8:03	2/18/2016	8:03	30	29	54	7	14.1	148.3	16.96	1954.8
	2/18/2016 8:04	2/18/2016	8:04	34	33.5	54	15	31.6	22.9	2.62	1957.4
	2/18/2016 9:07	2/18/2016	9:07	34.5	32.5	60	15.5	32.6	2023.9	231.53	2188.9
	2/18/2016 10:42	2/18/2016	10:42	34	31	64	17	35.5	3235.1	370.09	2559.0
	2/18/2016 10:43	2/18/2016	10:43		25				35.5	4.06	2563.1
Total CO ₂ Mass (lbs):											2563.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-132 Event 1	1/7/2016 8:10	1/7/2016	8:10	26	26	56	0	0.0			0
	1/7/2016 8:34	1/7/2016	8:34	26	23.5	58	10.5	20.1	241.4	27.62	27.6
	1/7/2016 8:35	1/7/2016	8:35	32	25.5	58	20.5	42.1	31.1	3.56	31.2
	1/7/2016 10:33	1/7/2016	10:33	28	25	64	22	42.9	5018.4	574.11	605.3
	1/7/2016 11:55	1/7/2016	11:55	27.5	23.5	65	23.5	45.5	3627.8	415.03	1020.3
	1/7/2016 12:23	1/7/2016	12:23	27.5	23	65	24	46.5	1288.9	147.45	1167.8
	1/7/2016 12:24	1/7/2016	12:24		18				46.5	5.32	1173.1
SW-132 Event 2	1/29/2016 7:21	1/29/2016	7:21	26	26	50	0	0.0			1173.1
	1/29/2016 7:49	1/29/2016	7:49	25	24	50	3.5	6.7	93.5	10.69	1183.8
	1/29/2016 7:50	1/29/2016	7:50	30	28	51	13	26.3	16.5	1.89	1185.7
	1/29/2016 9:38	1/29/2016	9:38	29	27	65	18	35.5	3338.2	381.89	1567.6
	1/29/2016 10:35	1/29/2016	10:35	29	27	68	18.5	36.4	2049.1	234.42	1802.0
	1/29/2016 11:45	1/29/2016	11:45	29	26	70	19	37.3	2579.1	295.05	2097.0
	1/29/2016 11:46	1/29/2016	11:46		21				37.3	4.27	2101.3
Total CO ₂ Mass (lbs):											2101.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-133 Event 1	2/19/2016 7:18	2/19/2016	7:18	31	29	50	0	0.0				0
	2/19/2016 7:32	2/19/2016	7:32	30	28	50	0	0.0		0.0	0.00	0.0
	2/19/2016 7:35	2/19/2016	7:35	36	35	50	5	10.8		16.2	1.85	1.9
	2/19/2016 8:49	2/19/2016	8:49	36	33.5	60	8.5	18.2		1072.0	122.64	124.5
	2/19/2016 9:30	2/19/2016	9:30	35	32	63	10	21.1		805.1	92.11	216.6
	2/19/2016 9:31	2/19/2016	9:31		26					21.1	2.41	219.0
SW-133 Event 2	2/22/2016 7:33	2/22/2016	7:33	32.5	31	62	0	0.0				219.0
	2/22/2016 7:47	2/22/2016	7:47	31	29.5	63	<2	0.0		0.0	0.00	219.0
	2/22/2016 7:49	2/22/2016	7:49	37	35	63	7	15.1		15.1	1.72	220.7
	2/22/2016 9:13	2/22/2016	9:13	36.5	33.5	66	10	21.4		1530.1	175.04	395.8
	2/22/2016 11:22	2/22/2016	11:22	36	33	72	12	25.4		3013.0	344.69	740.5
	2/22/2016 13:40	2/22/2016	13:40	35	32.5	75	13	27.1		3620.0	414.13	1154.6
	2/22/2016 15:07	2/22/2016	15:07	35	32	76	13	27.1		2357.5	269.70	1424.3
	2/22/2016 17:00	2/22/2016	17:00	35	31.5	70	14	29.3		3187.9	364.70	1789.0
	2/22/2016 17:07	2/22/2016	17:07		24					205.4	23.49	1812.5
SW-133 Event 3	2/24/2016 9:55	2/24/2016	9:55	30	32	74	0	0.0				1812.5
	2/24/2016 11:20	2/24/2016	11:20	27	30	76	<2	0.0		0.0	0.00	1812.5
	2/24/2016 11:22	2/24/2016	11:22	32	35.5	76	7	14.1		14.1	1.62	1814.1
	2/24/2016 12:34	2/24/2016	12:34	32	34.5	78	8.5	17.1		1125.2	128.72	1942.8
	2/24/2016 13:53	2/24/2016	13:53	32	34	84	9	18.0		1388.6	158.85	2101.7
	2/24/2016 15:09	2/24/2016	15:09	32	34	82	10	20.1		1447.8	165.62	2267.3
	2/24/2016 15:10	2/24/2016	15:10		24					20.1	2.30	2269.6
Total CO ₂ Mass (lbs):											2269.6	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-134 Event 1	2/19/2016 7:19	2/19/2016	7:19	30	29	50	0	0.0			0
	2/19/2016 7:33	2/19/2016	7:33	30	28	50	<2	0.0	0.0	0.00	0.0
	2/19/2016 7:34	2/19/2016	7:34	35	34	50	7	15.0	7.5	0.86	0.9
	2/19/2016 8:47	2/19/2016	8:47	35	33	60	10	21.2	1318.8	150.87	151.7
	2/19/2016 9:28	2/19/2016	9:28	34.5	32	63	11.5	24.1	928.8	106.26	258.0
	2/19/2016 9:29	2/19/2016	9:29		27				24.1	2.76	260.7
SW-134 Event 2	2/23/2016 7:39	2/23/2016	7:39	30	30	66	0	0.0			260.7
	2/23/2016 7:52	2/23/2016	7:52	29.5	28.5	66	3	5.9	38.7	4.42	265.2
	2/23/2016 7:55	2/23/2016	7:55	34	34	66	9	18.7	37.0	4.24	269.4
	2/23/2016 9:05	2/23/2016	9:05	34	34	67	10	20.8	1384.0	158.33	427.7
	2/23/2016 11:31	2/23/2016	11:31	34	32	73	13.5	27.9	3556.6	406.88	834.6
	2/23/2016 13:35	2/23/2016	13:35	34	31	76	14.5	29.9	3584.7	410.09	1244.7
	2/23/2016 14:57	2/23/2016	14:57	33	30	72	15	30.7	2485.6	284.35	1529.1
	2/23/2016 15:57	2/23/2016	15:57	33	30	74	16	32.7	1903.1	217.71	1746.8
	2/23/2016 16:58	2/23/2016	16:58	33	30	70	16	32.8	1999.2	228.71	1975.5
	2/23/2016 16:59	2/23/2016	16:59		25				32.8	3.76	1979.2
SW-134 Event 3	2/24/2016 9:49	2/24/2016	9:49	29.5	27	73	7	13.8			1979.2
	2/24/2016 11:23	2/24/2016	11:23	29	26	76	10	19.5	1565.1	179.04	2158.3
	2/24/2016 11:24	2/24/2016	11:24	36.5	33	76	19	40.2	29.9	3.42	2161.7
	2/24/2016 12:36	2/24/2016	12:36	36	32.5	78	22	46.2	3110.3	355.82	2517.5
	2/24/2016 12:37	2/24/2016	12:37		24				46.2	5.29	2522.8
Total CO ₂ Mass (lbs):											2522.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-135 Event 1	1/29/2016 7:37	1/29/2016	7:37	31	27.5	51	0	0.0				0
	1/29/2016 7:54	1/29/2016	7:54	30	27.5	51	0	0.0		0.0	0.00	0.0
	1/29/2016 7:55	1/29/2016	7:55	34	31.5	51	3	6.3		3.2	0.36	0.4
	1/29/2016 9:25	1/29/2016	9:25	33.5	30	59	7	14.6		942.4	107.81	108.2
	1/29/2016 10:42	1/29/2016	10:42	33	29	64	7.5	15.5		1158.3	132.51	240.7
	1/29/2016 11:56	1/29/2016	11:56	33	29	68	8	16.5		1181.6	135.18	375.9
	1/29/2016 11:57	1/29/2016	11:57		23					16.5	1.88	377.7
SW-135 Event 2	2/16/2016 12:31	2/16/2016	12:31	29	28	70	0	0.0				377.7
	2/16/2016 12:47	2/16/2016	12:47	29	27	71	0	0.0		0.0	0.00	377.7
	2/16/2016 12:48	2/16/2016	12:48	35	33.5	71	4	8.4		4.2	0.48	378.2
	2/16/2016 15:14	2/16/2016	15:14	35	32.5	71	6.5	13.6		1604.7	183.58	561.8
	2/16/2016 16:13	2/16/2016	16:13	34.5	32.5	71	7.5	15.6		862.3	98.64	660.4
	2/16/2016 17:02	2/16/2016	17:02	34	32	70	8	16.6		789.2	90.29	750.7
	2/16/2016 17:04	2/16/2016	17:04		26.5					33.2	3.80	754.5
SW-135 Event 3	3/1/2016 7:38	3/1/2016	7:38	32.5	31	56	0	0.0				754.5
	3/1/2016 7:50	3/1/2016	7:50	31.5	29	58	<2	0.0		0.0	0.00	754.5
	3/1/2016 7:51	3/1/2016	7:51	35	33	58	7	14.8		7.4	0.85	755.4
	3/1/2016 9:59	3/1/2016	9:59	35	32.5	72	7.5	15.7		1954.0	223.54	978.9
	3/1/2016 12:51	3/1/2016	12:51	34.5	32.5	83	8.5	17.5		2854.1	326.50	1305.4
	3/1/2016 14:42	3/1/2016	14:42	34	32	85	9.5	19.4		2049.1	234.42	1539.8
	3/1/2016 15:58	3/1/2016	15:58	34	32	85	10	20.4		1514.8	173.30	1713.1
	3/1/2016 16:55	3/1/2016	16:55	34	32	78	0.5	1.0		612.0	70.01	1783.1
	3/1/2016 16:56	3/1/2016	16:56		24					1.0	0.12	1783.3
SW-135 Event 4	3/3/2016 7:34	3/3/2016	7:34	30	31	49	0	0.0				1783.3
	3/3/2016 7:37	3/3/2016	7:37	30	30	49	7	14.2		21.3	2.44	1785.7
	3/3/2016 7:38	3/3/2016	7:38	33.5	34.5	49	12	25.3		19.7	2.26	1788.0
	3/3/2016 8:45	3/3/2016	8:45	33.5	34.5	65	13	27.0		1750.0	200.21	1988.2
	3/3/2016 10:26	3/3/2016	10:26	33	34	73	13.5	27.6		2756.3	315.32	2303.5
	3/3/2016 10:27	3/3/2016	10:27		27					27.6	3.16	2306.7
Total CO ₂ Mass (lbs):											2306.7	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-136 Event 1	1/8/2016 7:46	1/8/2016	7:46	26	26	62	0	0.0			0
	1/8/2016 8:18	1/8/2016	8:18	25	25	62	0	0.0	0.0	0.00	0.0
	1/8/2016 8:19	1/8/2016	8:19	32	31.5	62	6	12.3	6.1	0.70	0.7
	1/8/2016 9:51	1/8/2016	9:51	32	31.5	65	6.5	13.3	1174.9	134.41	135.1
	1/8/2016 11:29	1/8/2016	11:29	31.5	31.5	68	7.5	15.2	1393.4	159.41	294.5
	1/8/2016 13:22	1/8/2016	13:22	31.5	31	70	8	16.2	1770.1	202.50	497.0
	1/8/2016 13:25	1/8/2016	13:25		26				48.5	5.54	502.6
SW-136 Event 2	1/13/2016 12:33	1/13/2016	12:33	27.5	28.5	68	0	0.0			502.6
	1/13/2016 12:57	1/13/2016	12:57	27	27.5	67	0	0.0	0.0	0.00	502.6
	1/13/2016 12:58	1/13/2016	12:58	31	31	67	6	12.1	6.0	0.69	503.3
	1/13/2016 14:05	1/13/2016	14:05	31	30.5	67	7	14.1	877.2	100.35	603.6
	1/13/2016 15:40	1/13/2016	15:40	30.5	30	65	8	16.1	1432.3	163.86	767.5
	1/13/2016 17:09	1/13/2016	17:09	30.5	29.5	62	9	18.1	1520.6	173.96	941.4
	1/13/2016 17:10	1/13/2016	17:10		26				18.1	2.07	943.5
SW-136 Event 3	1/27/2016 7:19	1/27/2016	7:19	29.5	29.5	63	0	0.0			943.5
	1/27/2016 7:36	1/27/2016	7:36	28	28	63	0	0.0	0.0	0.00	943.5
	1/27/2016 7:37	1/27/2016	7:37	32	31.5	63	<2	0.0	0.0	0.00	943.5
	1/27/2016 9:21	1/27/2016	9:21	32	31.5	66	6	12.2	636.0	72.76	1016.2
	1/27/2016 11:03	1/27/2016	11:03	32	31.5	81	6	12.1	1238.5	141.68	1157.9
	1/27/2016 12:18	1/27/2016	12:18	31.5	31	81	6.5	13.0	939.0	107.42	1265.4
	1/27/2016 14:06	1/27/2016	14:06	31	30	75	7	14.0	1456.7	166.65	1432.0
	1/27/2016 16:02	1/27/2016	16:02	31	30	76	7.5	15.0	1679.9	192.18	1624.2
	1/27/2016 16:58	1/27/2016	16:58	31	30	71	8	16.1	868.7	99.38	1723.6
	1/27/2016 17:00	1/27/2016	17:00		26.5				32.1	3.67	1727.2
SW-136 Event 4	2/2/2016 8:21	2/2/2016	8:21	29.5	30	65	0	0.0			1727.2
	2/2/2016 8:40	2/2/2016	8:40	28	28	66	4	7.8	74.0	8.47	1735.7
	2/2/2016 8:41	2/2/2016	8:41	31	31	66	8	16.1	12.0	1.37	1737.1
	2/2/2016 10:18	2/2/2016	10:18	32	30.5	78	8	16.1	1564.0	178.92	1916.0
	2/2/2016 12:26	2/2/2016	12:26	32	30	78	8.5	17.1	2127.5	243.39	2159.4
	2/2/2016 13:13	2/2/2016	13:13	32	30	76	8.5	17.2	805.7	92.17	2251.5
	2/2/2016 13:14	2/2/2016	13:14		24				17.2	1.96	2253.5
	Total CO ₂ Mass (lbs):										

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-137 Event 1	1/25/2016 12:30	1/25/2016	12:30	28	28	74	0	0.0				0
	1/25/2016 12:34	1/25/2016	12:34	33	33	74	0	0.0		0.0	0.00	0.0
	1/25/2016 14:07	1/25/2016	14:07	33	33	74	4	8.2		380.3	43.50	43.5
	1/25/2016 16:16	1/25/2016	16:16	32	32	68	6	12.2		1314.8	150.41	193.9
	1/25/2016 17:09	1/25/2016	17:09	31.5	31.5	63	6	12.2		646.8	73.99	267.9
	1/25/2016 17:10	1/25/2016	17:10		27					12.2	1.40	269.3
SW-137 Event 2	1/29/2016 7:25	1/29/2016	7:25	29	30	50	0	0.0				269.3
	1/29/2016 7:45	1/29/2016	7:45	29	29	52	0	0.0		0.0	0.00	269.3
	1/29/2016 7:46	1/29/2016	7:46	34	33.5	52	4.5	9.5		4.8	0.54	269.8
	1/29/2016 9:19	1/29/2016	9:19	33	33	65	6.5	13.4		1065.3	121.87	391.7
	1/29/2016 10:45	1/29/2016	10:45	33	32.5	70	7	14.4		1194.2	136.62	528.3
	1/29/2016 12:02	1/29/2016	12:02	32	32	72	7.5	15.2		1138.3	130.22	658.5
	1/29/2016 12:04	1/29/2016	12:04		27					30.4	3.48	662.0
	2/9/2016 7:47	2/9/2016	7:47	30.5	31.5	48	0	0.0				662.0
2/9/2016 7:53	2/9/2016	7:53	30	30	48	0	0.0		0.0	0.00	662.0	
2/9/2016 7:54	2/9/2016	7:54	32	32	48	<2	0.0		0.0	0.00	662.0	
2/9/2016 9:27	2/9/2016	9:27	32	31.5	60	4	8.2		381.4	43.63	705.7	
2/9/2016 11:45	2/9/2016	11:45	31.5	31	62	4.5	9.2		1197.9	137.04	842.7	
2/9/2016 13:42	2/9/2016	13:42	31	31	64	4.5	9.1		1067.6	122.13	964.8	
2/9/2016 15:27	2/9/2016	15:27	31	30.5	64	5	10.1		1007.5	115.26	1080.1	
2/9/2016 17:04	2/9/2016	17:04	30.5	30	64	6	12.1		1074.5	122.92	1203.0	
2/9/2016 17:05	2/9/2016	17:05		26					12.1	1.38	1204.4	
SW-137 Event 4	2/15/2016 7:33	2/15/2016	7:33	30	31	51	0	0.0				1204.4
	2/15/2016 8:25	2/15/2016	8:25	29	30	54	0	0.0		0.0	0.00	1204.4
	2/15/2016 8:26	2/15/2016	8:26	33.5	34.5	54	5	10.5		5.2	0.60	1205.0
	2/15/2016 10:07	2/15/2016	10:07	34	34	64	6.5	13.6		1214.2	138.91	1343.9
	2/15/2016 11:18	2/15/2016	11:18	34.5	34	65	7	14.7		1002.1	114.64	1458.5
	2/15/2016 12:28	2/15/2016	12:28	34	34	70	7.5	15.6		1057.8	121.01	1579.5
	2/15/2016 14:18	2/15/2016	14:18	34	34	75	7.5	15.5		1707.0	195.28	1774.8
	2/15/2016 15:46	2/15/2016	15:46	34	33.5	72	8	16.6		1409.8	161.28	1936.1
	2/15/2016 17:05	2/15/2016	17:05	34	33	69	8	16.6		1310.2	149.89	2086.0
	2/15/2016 17:07	2/15/2016	17:07		29					33.2	3.80	2089.8
	Total CO ₂ Mass (lbs):											2089.8

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-138 Event 1	2/2/2016 13:18	2/2/2016	13:18	27	28	78	<2	0.0				0
	2/2/2016 13:25	2/2/2016	13:25	33	33	78	4	8.1		28.5	3.26	3.3
	2/2/2016 14:28	2/2/2016	14:28	32.5	32.5	78	5.5	11.1		607.5	69.50	72.8
	2/2/2016 15:45	2/2/2016	15:45	32.5	32.5	81	5.5	11.1		856.6	98.00	170.8
	2/2/2016 17:13	2/2/2016	17:13	31.5	31.5	73	6	12.1		1020.3	116.73	287.5
	2/2/2016 17:14	2/2/2016	17:14		24					12.1	1.38	288.9
SW-138 Event 2	2/11/2016 7:31	2/11/2016	7:31	28	29.5	40	3	6.0				288.9
	2/11/2016 7:38	2/11/2016	7:38	28	27.5	42	4	8.0		48.9	5.60	294.5
	2/11/2016 7:39	2/11/2016	7:39	31	31	42	5	10.3		9.2	1.05	295.5
	2/11/2016 9:09	2/11/2016	9:09	31	31	63	6.5	13.1		1056.2	120.83	416.3
	2/11/2016 12:42	2/11/2016	12:42	31	31	72	6.5	13.0		2787.3	318.87	735.2
	2/11/2016 13:40	2/11/2016	13:40	31	30.5	73	6.5	13.0		755.3	86.40	821.6
	2/11/2016 15:01	2/11/2016	15:01	31	30	74	6.5	13.0		1053.7	120.55	942.2
	2/11/2016 16:01	2/11/2016	16:01	30.5	30	74	6.5	12.9		778.0	89.00	1031.2
	2/11/2016 17:09	2/11/2016	17:09	30.5	30	74	6.5	12.9		879.3	100.59	1131.8
	2/11/2016 17:11	2/11/2016	17:11		24					25.9	2.96	1134.7
SW-138 Event 3	2/16/2016 7:19	2/16/2016	7:19	30	30	63	4	8.0				1134.7
	2/16/2016 7:48	2/16/2016	7:48	29	29	63	6	11.9		287.9	32.94	1167.7
	2/16/2016 7:49	2/16/2016	7:49	35	35	63	10	21.1		16.5	1.89	1169.5
	2/16/2016 9:18	2/16/2016	9:18	36	36	70	11.5	24.3		2022.4	231.36	1400.9
	2/16/2016 11:06	2/16/2016	11:06	35	35.5	73	12	25.1		2668.6	305.29	1706.2
	2/16/2016 12:35	2/16/2016	12:35	35	35	76	12.5	26.0		2274.7	260.22	1966.4
	2/16/2016 12:37	2/16/2016	12:37		25.5					52.1	5.96	1972.4
SW-138 Event 4	2/23/2016 7:46	2/23/2016	7:46	30	30	70	6	11.9				1972.4
	2/23/2016 7:52	2/23/2016	7:52	29.5	29	70	7	13.8		77.2	8.83	1981.2
	2/23/2016 7:53	2/23/2016	7:53	32.5	32	70	8	16.3		15.1	1.72	1982.9
	2/23/2016 9:05	2/23/2016	9:05	33	33	70	8	16.4		1179.0	134.88	2117.8
	2/23/2016 11:33	2/23/2016	11:33	33	32	80	9	18.3		2568.7	293.86	2411.7
	2/23/2016 11:34	2/23/2016	11:34		22					18.3	2.09	2413.8
Total CO ₂ Mass (lbs):											2413.8	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-139 Event 1	12/21/2015 7:42	12/21/2015	7:42	29	29.5	64	0	0.0				0
	12/21/2015 8:10	12/21/2015	8:10	37	27	68	7	15.0		209.9	24.02	24.0
	12/21/2015 8:11	12/21/2015	8:11	32	31	68	12	24.4		19.7	2.25	26.3
	12/21/2015 9:31	12/21/2015	9:31	32	30	73	14	28.3		2110.2	241.41	267.7
	12/21/2015 11:48	12/21/2015	11:48	32	30.5	79	13	26.2		3733.9	427.15	694.8
	12/21/2015 13:01	12/21/2015	13:01	31	30.5	80	12.5	24.9		1862.5	213.07	907.9
	12/21/2015 14:09	12/21/2015	14:09	30.5	30.5	76	12	23.8		1655.4	189.37	1097.3
	12/21/2015 15:09	12/21/2015	15:09	30.5	31	76	12	23.8		1429.5	163.54	1260.8
	12/21/2015 16:01	12/21/2015	16:01	30.5	30.5	74	11.5	22.9		1214.3	138.91	1399.7
	12/21/2015 17:09	12/21/2015	17:09	32	31.5	72	12.5	25.3		1639.1	187.51	1587.2
	12/21/2015 17:10	12/21/2015	17:10		28.5					25.3	2.90	1590.1
SW-139 Event 2	1/5/2016 7:42	1/5/2016	7:42	29	29	47	0	0.0				1590.1
	1/5/2016 8:07	1/5/2016	8:07	27	27	49	4	7.8		97.9	11.20	1601.3
	1/5/2016 8:08	1/5/2016	8:08	34	33.5	49	10	21.2		14.5	1.66	1603.0
	1/5/2016 9:42	1/5/2016	9:42	34	32.5	60	14	29.3		2373.9	271.57	1874.6
	1/5/2016 11:35	1/5/2016	11:35	34	32.5	64	14	29.2		3307.3	378.36	2252.9
	1/5/2016 12:56	1/5/2016	12:56	34	32.5	63	13.5	28.2		2324.9	265.97	2518.9
	1/5/2016 12:57	1/5/2016	12:57		28					28.2	3.23	2522.1
	Total CO ₂ Mass (lbs):											2522.1

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-140 Event 1	2/18/2016 7:33	2/18/2016	7:33	31	32	50	0	0.0			0
	2/18/2016 7:51	2/18/2016	7:51	29	30	54	0	0.0	0.0	0.00	0.0
	2/18/2016 7:52	2/18/2016	7:52	33	34	54	4.5	9.4	4.7	0.54	0.5
	2/18/2016 9:18	2/18/2016	9:18	34	34.5	66	4.5	9.4	806.4	92.26	92.8
	2/18/2016 10:52	2/18/2016	10:52	33	34	70	4.5	9.2	874.5	100.04	192.8
	2/18/2016 12:22	2/18/2016	12:22	33.5	34	72	5.5	11.3	925.3	105.85	298.7
	2/18/2016 13:24	2/18/2016	13:24	33.5	34	72	5.5	11.3	702.2	80.33	379.0
	2/18/2016 14:31	2/18/2016	14:31	33.5	34	72	6	12.4	793.3	90.76	469.8
	2/18/2016 17:07	2/18/2016	17:07	33	33.5	67	6	12.4	1927.1	220.46	690.2
	2/18/2016 17:08	2/18/2016	17:08		29.5				12.4	1.41	691.6
SW-140 Event 2	2/24/2016 7:39	2/24/2016	7:39	32	33	72	0	0.0			691.6
	2/24/2016 7:51	2/24/2016	7:51	30	30	72	<2	0.0	0.0	0.00	691.6
	2/24/2016 7:52	2/24/2016	7:52	34	34	72	6	12.4	6.2	0.71	692.4
	2/24/2016 8:58	2/24/2016	8:58	34	34	74	6	12.4	818.9	93.69	786.0
	2/24/2016 9:53	2/24/2016	9:53	34	33.5	80	7	14.4	736.3	84.23	870.3
	2/24/2016 11:29	2/24/2016	11:29	34	33.5	80	7.5	15.4	1429.6	163.55	1033.8
	2/24/2016 12:40	2/24/2016	12:40	34	33.5	83	8	16.4	1128.6	129.11	1162.9
	2/24/2016 13:56	2/24/2016	13:56	34	33.5	86	8	16.3	1243.5	142.26	1305.2
	2/24/2016 15:16	2/24/2016	15:16	33.5	33	84	8.5	17.3	1345.6	153.94	1459.1
	2/24/2016 16:01	2/24/2016	16:01	33.5	33	83	8.5	17.3	779.0	89.11	1548.3
	2/24/2016 16:02	2/24/2016	16:02		27				17.3	1.98	1550.2
	SW-140 Event 3	2/25/2016 7:32	2/25/2016	7:32	32	30	54	5	10.3		
2/25/2016 7:42		2/25/2016	7:42	32	30	58	7	14.4	123.5	14.13	1564.4
2/25/2016 7:43		2/25/2016	7:43	38	35	58	11	24.0	19.2	2.20	1566.6
2/25/2016 8:46		2/25/2016	8:46	38.5	36	63	14	30.6	1720.5	196.82	1763.4
2/25/2016 10:27		2/25/2016	10:27	38	35	68	15	32.4	3183.1	364.15	2127.5
2/25/2016 11:32		2/25/2016	11:32	38	35	69	15.5	33.5	2143.3	245.19	2372.7
2/25/2016 11:33		2/25/2016	11:33		27				33.5	3.83	2376.6
Total CO ₂ Mass (lbs):											2376.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-141 Event 1	2/9/2016 7:44	2/9/2016	7:44	31.5	32	48	<2	0.0			0
	2/9/2016 7:50	2/9/2016	7:50	31	29	48	4	8.2	24.6	2.82	2.8
	2/9/2016 7:51	2/9/2016	7:51	34	32.5	48	6	12.7	10.5	1.20	4.0
	2/9/2016 9:28	2/9/2016	9:28	34	32.5	60	6	12.6	1226.6	140.32	144.3
	2/9/2016 11:47	2/9/2016	11:47	34.5	32.5	62	6	12.6	1749.8	200.18	344.5
	2/9/2016 13:42	2/9/2016	13:42	34	32	64	6	12.5	1444.8	165.29	509.8
	2/9/2016 15:26	2/9/2016	15:26	34	31.5	64	6.5	13.6	1356.2	155.15	665.0
	2/9/2016 17:09	2/9/2016	17:09	34	32	64	7	14.6	1450.6	165.95	830.9
	2/9/2016 17:10	2/9/2016	17:10		25				14.6	1.67	832.6
SW-141 Event 2	2/11/2016 7:33	2/11/2016	7:33	29	27	40	4	8.1			832.6
	2/11/2016 7:41	2/11/2016	7:41	28	26	42	6	12.0	80.3	9.18	841.8
	2/11/2016 7:42	2/11/2016	7:42	32	30	42	9.5	19.8	15.9	1.82	843.6
	2/11/2016 9:10	2/11/2016	9:10	32	30	63	9	18.4	1682.6	192.49	1036.1
	2/11/2016 12:37	2/11/2016	12:37	32.5	30	72	8	16.3	3591.4	410.86	1446.9
	2/11/2016 13:40	2/11/2016	13:40	32	30	73	8	16.2	1023.6	117.10	1564.0
	2/11/2016 15:01	2/11/2016	15:01	32	30	74	8	16.2	1311.2	150.00	1714.0
	2/11/2016 16:02	2/11/2016	16:02	32	30	74	8	16.2	987.0	112.91	1826.9
	2/11/2016 16:10	2/11/2016	16:10	32	30	70	8	16.2	129.7	14.84	1841.8
2/11/2016 16:11	2/11/2016	16:11		23				16.2	1.86	1843.6	
SW-141 Event 3	2/16/2016 12:40	2/16/2016	12:40	30	30	76	<2	0.0			1843.6
	2/16/2016 12:42	2/16/2016	12:42	36	36	76	6	12.6	12.6	1.44	1845.1
	2/16/2016 15:18	2/16/2016	15:18	35.5	35.5	77	7	14.6	2127.2	243.35	2088.4
	2/16/2016 16:15	2/16/2016	16:15	35	35.5	76	7	14.6	833.0	95.29	2183.7
	2/16/2016 17:08	2/16/2016	17:08	34.5	35	74	7.5	15.6	799.2	91.43	2275.1
	2/16/2016 17:09	2/16/2016	17:09		28				15.6	1.78	2276.9
Total CO ₂ Mass (lbs):											2276.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
<u>SW-142 Event 1</u>	1/7/2016 8:06	1/7/2016	8:06	26	27	56	0	0.0			0
	1/7/2016 8:24	1/7/2016	8:24	27.5	25.5	57	<2	0.0	0.0	0.00	0.0
	1/7/2016 8:25	1/7/2016	8:25	34	33	57	10	21.0	10.5	1.20	1.2
	1/7/2016 10:19	1/7/2016	10:19	34	32	64	11.5	24.0	2565.3	293.47	294.7
	1/7/2016 11:42	1/7/2016	11:42	34	32	65	11.5	24.0	1990.5	227.71	522.4
	1/7/2016 12:41	1/7/2016	12:41	34	31.5	67	11.5	23.9	1412.8	161.63	684.0
	1/7/2016 12:42	1/7/2016	12:42		28				23.9	2.74	686.7
<u>SW-142 Event 2</u>	2/18/2016 7:32	2/18/2016	7:32	31.5	33.5	50	0	0.0			686.7
	2/18/2016 7:53	2/18/2016	7:53	29	30	54	4.5	9.0	94.2	10.78	697.5
	2/18/2016 7:54	2/18/2016	7:54	33.5	34	54	12	25.2	17.1	1.95	699.5
	2/18/2016 9:19	2/18/2016	9:19	34	34	66	12	25.0	2131.1	243.80	943.3
	2/18/2016 10:54	2/18/2016	10:54	34	34	70	12	24.9	2369.1	271.03	1214.3
	2/18/2016 12:22	2/18/2016	12:22	34	34	72	12	24.8	2188.1	250.32	1464.6
	2/18/2016 13:27	2/18/2016	13:27	34	34	72	12	24.8	1614.6	184.72	1649.3
	2/18/2016 14:32	2/18/2016	14:32	34	34	72	12	24.8	1614.6	184.72	1834.1
	2/18/2016 17:02	2/18/2016	17:02	34	34	67	12	25.0	3735.3	427.31	2261.4
	2/18/2016 17:03	2/18/2016	17:03		31				25.0	2.86	2264.2
Total CO ₂ Mass (lbs):											2264.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
<u>SW-143 Event 1</u>	1/26/2016 8:03	1/26/2016	8:03	29	28	57	0	0.0			0
	1/26/2016 9:33	1/26/2016	9:33	28	26.5	65	<2	0.0	0.0	0.00	0.0
	1/26/2016 9:34	1/26/2016	9:34	33	32.5	65	10	20.6	10.3	1.18	1.2
	1/26/2016 11:58	1/26/2016	11:58	33	30	73	10.5	21.5	3032.0	346.87	348.0
	1/26/2016 14:00	1/26/2016	14:00	32	29.5	73	12	24.3	2792.6	319.48	667.5
	1/26/2016 15:40	1/26/2016	15:40	31.5	28	71	13	26.2	2526.0	288.97	956.5
	1/26/2016 16:40	1/26/2016	16:40	31.5	28	70	13	26.3	1574.3	180.10	1136.6
	1/26/2016 16:42	1/26/2016	16:42		22				52.5	6.01	1142.6
<u>SW-143 Event 2</u>	2/2/2016 8:19	2/2/2016	8:19	26	26.5	65	0	0.0			1142.6
	2/2/2016 8:37	2/2/2016	8:37	26	26	66	0	0.0	0.0	0.00	1142.6
	2/2/2016 8:38	2/2/2016	8:38	32	32.5	66	6	12.2	6.1	0.70	1143.3
	2/2/2016 10:19	2/2/2016	10:19	33.5	32	78	8	16.4	1444.7	165.28	1308.6
	2/2/2016 12:28	2/2/2016	12:28	33	30	78	10	20.4	2369.9	271.12	1579.7
	2/2/2016 14:30	2/2/2016	14:30	32.5	29.5	78	12	24.3	2725.0	311.74	1891.4
	2/2/2016 15:47	2/2/2016	15:47	32	29	81	13	26.1	1941.3	222.09	2113.5
	2/2/2016 17:09	2/2/2016	17:09	32	28.5	73	14	28.3	2232.8	255.43	2369.0
	2/2/2016 17:10	2/2/2016	17:10		21.5				28.3	3.24	2372.2
Total CO ₂ Mass (lbs):											2372.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-144 Event 1	1/6/2016 7:45	1/6/2016	7:45	28	28	48	0	0.0			0
	1/6/2016 8:15	1/6/2016	8:15	26	26	53	4	7.7	115.5	13.22	13.2
	1/6/2016 8:16	1/6/2016	8:16	34	32	53	10	21.1	14.4	1.65	14.9
	1/6/2016 10:21	1/6/2016	10:21	34	32	65	13	27.1	3012.0	344.58	359.4
	1/6/2016 11:34	1/6/2016	11:34	34	31	66	13	27.1	1977.1	226.18	585.6
	1/6/2016 11:35	1/6/2016	11:35		22				27.1	3.10	588.7
SW-144 Event 2	1/8/2016 7:42	1/8/2016	7:42	29	29	63	0	0.0			588.7
	1/8/2016 8:09	1/8/2016	8:09	29	28	63	6	11.9	160.1	18.32	607.0
	1/8/2016 8:12	1/8/2016	8:12	34	33	63	10	20.9	49.1	5.62	612.7
	1/8/2016 9:47	1/8/2016	9:47	34	33	66	14	29.2	2376.8	271.90	884.6
	1/8/2016 11:32	1/8/2016	11:32	34	32.5	69	14	29.1	3056.4	349.66	1234.2
	1/8/2016 13:13	1/8/2016	13:13	34	32.5	70	14.5	30.1	2986.6	341.67	1575.9
	1/8/2016 13:16	1/8/2016	13:16		24				90.2	10.32	1586.2
SW-144 Event 3	1/11/2016 7:24	1/11/2016	7:24	30	30	42	0	0.0			1586.2
	1/11/2016 8:06	1/11/2016	8:06	29	28	52	8	16.0	335.8	38.41	1624.6
	1/11/2016 8:08	1/11/2016	8:08	32	33	52	12	24.8	40.8	4.67	1629.3
	1/11/2016 9:57	1/11/2016	9:57	32	31	64	12	24.5	2687.7	307.47	1936.7
	1/11/2016 11:41	1/11/2016	11:41	32	31	66	12	24.5	2546.4	291.31	2228.1
	1/11/2016 11:42	1/11/2016	11:42		24				24.5	2.80	2230.9
SW-144 Event 4	1/13/2016 8:03	1/13/2016	8:03	27	28	45	0	0.0			2230.9
	1/13/2016 8:31	1/13/2016	8:31	25.5	26	56	5	9.5	133.6	15.28	2246.1
	1/13/2016 8:32	1/13/2016	8:32	30	30.5	57	10	20.1	14.8	1.70	2247.8
	1/13/2016 8:38	1/13/2016	8:38		18				120.7	13.81	2261.6
Total CO ₂ Mass (lbs):											2261.6

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-145 Event 1	1/5/2016 11:31	1/5/2016	11:31	30	30	62	0	0.0				0
	1/5/2016 11:47	1/5/2016	11:47	30.5	29	63	0	0.0	0.0	0.00	0.0	
	1/5/2016 11:49	1/5/2016	11:49	33	32	63	0	0.0	0.0	0.00	0.0	
	1/5/2016 12:58	1/5/2016	12:58	32	30	63	3.5	7.2	246.9	28.24	28.2	
	1/5/2016 14:17	1/5/2016	14:17	31	29	58	4.5	9.1	643.9	73.66	101.9	
	1/5/2016 15:42	1/5/2016	15:42	31	29	56	5	10.2	821.4	93.96	195.9	
	1/5/2016 17:07	1/5/2016	17:07	31	29	55	5	10.2	865.9	99.05	294.9	
	1/5/2016 17:08	1/5/2016	17:08		26				10.2	1.17	296.1	
SW-145 Event 2	1/25/2016 7:47	1/25/2016	7:47	27	27	42	0	0.0				296.1
	1/25/2016 8:12	1/25/2016	8:12	25	24	44	0	0.0	0.0	0.00	296.1	
	1/25/2016 8:13	1/25/2016	8:13	33	32	44	4	8.4	4.2	0.48	296.6	
	1/25/2016 9:28	1/25/2016	9:28	33	30	64	7	14.5	858.0	98.15	394.7	
	1/25/2016 11:07	1/25/2016	11:07	32.5	30	71	8	16.3	1523.0	174.23	568.9	
	1/25/2016 12:31	1/25/2016	12:31	32.5	30	74	8	16.3	1368.5	156.56	725.5	
	1/25/2016 14:09	1/25/2016	14:09	32	29.5	74	9	18.2	1689.1	193.23	918.7	
	1/25/2016 16:15	1/25/2016	16:15	31	29	68	10	20.1	2414.4	276.21	1194.9	
	1/25/2016 17:03	1/25/2016	17:03	31	29	63	10	20.2	968.2	110.77	1305.7	
	1/25/2016 17:04	1/25/2016	17:04		25				20.2	2.31	1308.0	
SW-145 Event 3	2/19/2016 7:19	2/19/2016	7:19	30.5	31	53	0	0.0				1308.0
	2/19/2016 7:39	2/19/2016	7:39	29	31	54	0	0.0	0.0	0.00	1308.0	
	2/19/2016 7:40	2/19/2016	7:40	32.5	34	54	4	8.3	4.1	0.47	1308.5	
	2/19/2016 8:44	2/19/2016	8:44	33	33.5	67	5.5	11.3	627.8	71.82	1380.3	
	2/19/2016 9:21	2/19/2016	9:21	32	33.5	69	6	12.2	435.0	49.77	1430.1	
	2/19/2016 9:22	2/19/2016	9:22		27				12.2	1.40	1431.5	
SW-145 Event 4	2/22/2016 7:33	2/22/2016	7:33	30	32	65	0	0.0				1431.5
	2/22/2016 7:38	2/22/2016	7:38	29	30.5	66	0	0.0	0.0	0.00	1431.5	
	2/22/2016 7:39	2/22/2016	7:39	31	33	66	4	8.1	4.0	0.46	1431.9	
	2/22/2016 9:21	2/22/2016	9:21	31	32	70	4	8.0	821.0	93.92	1525.9	
	2/22/2016 9:22	2/22/2016	9:22	33.5	34	70	7	14.4	11.2	1.29	1527.1	
	2/22/2016 11:27	2/22/2016	11:27	33.5	34	79	8	16.4	1925.3	220.26	1747.4	
	2/22/2016 13:29	2/22/2016	13:29	33	33.5	82	9	18.3	2111.9	241.60	1989.0	
	2/22/2016 15:18	2/22/2016	15:18	32.5	33	82	9.5	19.2	2039.8	233.36	2222.4	
	2/22/2016 17:10	2/22/2016	17:10	32.5	33	74	10.5	21.4	2269.2	259.60	2482.0	
	2/22/2016 17:12	2/22/2016	17:12		29				42.7	4.89	2486.8	
SW-145 Event 5	2/23/2016 7:43	2/23/2016	7:43	28	29.5	70	8	15.5				2486.8
	2/23/2016 7:49	2/23/2016	7:49	28	29	70	8	15.5	93.1	10.65	2497.5	
	2/23/2016 7:50	2/23/2016	7:50	31	31.5	70	10.5	21.1	18.3	2.09	2499.6	
	2/23/2016 9:09	2/23/2016	9:09	31.5	32	70	10.5	21.2	1670.4	191.10	2690.7	
	2/23/2016 11:34	2/23/2016	11:34	31.5	32	80	10.5	21.0	3059.7	350.03	3040.7	
	2/23/2016 11:35	2/23/2016	11:35		27				21.0	2.40	3043.1	
Total CO ₂ Mass (lbs):												3043.1

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-146 Event 1	10/27/2015 11:34	10/27/2015	11:34	20	20	72	0	0.0			0
	10/27/2015 11:37	10/27/2015	11:37	22	23	72	0	0.0	0.0	0.00	0.0
	10/27/2015 12:21	10/27/2015	12:21	24	25	72	0	0.0	0.0	0.00	0.0
	10/27/2015 12:33	10/27/2015	12:33	26	26	72	0	0.0	0.0	0.00	0.0
	10/27/2015 12:39	10/27/2015	12:39	28	27	72	6	11.6	34.9	3.99	4.0
	10/27/2015 12:45	10/27/2015	12:45	30	30	72	7	13.9	76.5	8.75	12.7
	10/27/2015 12:50	10/27/2015	12:50	32	32	73	7	14.2	70.1	8.02	20.8
	10/27/2015 14:36	10/27/2015	14:36	32	30	74	8	16.2	1608.6	184.03	204.8
	10/27/2015 14:38	10/27/2015	14:38	34	32	74	11	22.7	38.9	4.45	209.2
	10/27/2015 15:37	10/27/2015	15:37	34	32	76	11	22.7	1339.6	153.24	362.5
	10/27/2015 16:17	10/27/2015	16:17	34	32	76	11	22.7	907.3	103.79	466.3
	10/27/2015 17:01	10/27/2015	17:01	34	32	76	11	22.7	998.0	114.17	580.4
10/27/2015 17:02	10/27/2015	17:02		25				22.7	2.59	583.0	
SW-146 Event 2	11/18/2015 8:09	11/18/2015	8:09	26	26.5	75	0	0.0			583.0
	11/18/2015 9:15	11/18/2015	9:15	25	25	78	0	0.0	0.0	0.00	583.0
	11/18/2015 9:16	11/18/2015	9:16	30	30	78	6	11.8	5.9	0.68	583.7
	11/18/2015 10:46	11/18/2015	10:46	30	30	79	5	9.8	975.0	111.54	695.3
	11/18/2015 11:57	11/18/2015	11:57	30	29.5	82	6	11.8	767.5	87.81	783.1
	11/18/2015 13:06	11/18/2015	13:06	30	29.5	77	6	11.8	814.6	93.19	876.3
	11/18/2015 15:03	11/18/2015	15:03	30	29	74	7	13.8	1502.4	171.87	1048.1
	11/18/2015 16:52	11/18/2015	16:52	30	28	74	7	13.8	1509.3	172.66	1220.8
	11/18/2015 16:54	11/18/2015	16:54		24				27.7	3.17	1224.0
SW-146 Event 3	1/15/2016 7:09	1/15/2016	7:09	27	26.5	65	0	0.0			1224.0
	1/15/2016 7:42	1/15/2016	7:42	27	26	65	0	0.0	0.0	0.00	1224.0
	1/15/2016 7:44	1/15/2016	7:44	32	31	65	3	6.1	6.1	0.70	1224.7
	1/15/2016 8:50	1/15/2016	8:50	31	30.5	65	4	8.1	468.4	53.58	1278.2
	1/15/2016 10:33	1/15/2016	10:33	32	29	65	5.5	11.2	993.7	113.68	1391.9
	1/15/2016 11:19	1/15/2016	11:19	32	29	65	5.5	11.2	516.2	59.06	1451.0
	1/15/2016 11:22	1/15/2016	11:22		21.5				33.7	3.85	1454.8
SW-146 Event 4	1/18/2016 8:23	1/18/2016	8:23	28	26	46	0	0.0			1454.8
	1/18/2016 9:03	1/18/2016	9:03	27	26	54	<2	0.0	0.0	0.00	1454.8
	1/18/2016 9:04	1/18/2016	9:04	33	30.5	54	7	14.6	7.3	0.83	1455.7
	1/18/2016 10:36	1/18/2016	10:36	33	30	62	6	12.4	1242.4	142.13	1597.8
	1/18/2016 11:59	1/18/2016	11:59	33	30	65	6.5	13.4	1071.4	122.57	1720.4
	1/18/2016 13:58	1/18/2016	13:58	32	29.5	67	7.5	15.3	1706.4	195.21	1915.6
	1/18/2016 15:34	1/18/2016	15:34	32	29	67	8	16.3	1515.1	173.33	2088.9
	1/18/2016 17:05	1/18/2016	17:05	32.5	29	63	8	16.4	1489.5	170.40	2259.3
	1/19/2016 7:37	1/19/2016	7:37	32	22	44	9.5	19.8	15802.4	1807.80	4067.1
	1/19/2016 7:38	1/19/2016	7:38		19				19.8	2.27	4069.4
SW-146 Event 5	1/26/2016 8:47	1/26/2016	8:47	29	28	58	0	0.0			4069.4
	1/26/2016 9:44	1/26/2016	9:44	29	27.5	62	4	7.9	225.6	25.80	4095.2
	1/26/2016 9:47	1/26/2016	9:47	34	32	62	8	16.7	37.0	4.23	4099.4
	1/26/2016 12:05	1/26/2016	12:05	34.5	31	68	8	16.7	2307.1	263.93	4363.3
	1/26/2016 14:12	1/26/2016	14:12	34	29.5	68	9	18.7	2248.9	257.27	4620.6
	1/26/2016 15:48	1/26/2016	15:48	34	29	67	10	20.8	1896.3	216.94	4837.5
	1/26/2016 17:04	1/26/2016	17:04	33.5	28.5	63	10	20.8	1580.0	180.75	5018.3
	1/26/2016 17:06	1/26/2016	17:06		22				41.6	4.75	5023.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-146 Event 6	1/29/2016 7:24	1/29/2016	7:24	26.5	26	46	0	0.0			5023.0
	1/29/2016 7:54	1/29/2016	7:54	26	24.5	48	<2	0.0	0.0	0.00	5023.0
	1/29/2016 7:55	1/29/2016	7:55	31	30	48	6	12.3	6.2	0.70	5023.7
	1/29/2016 9:30	1/29/2016	9:30	31	29	63	7	14.2	1257.4	143.85	5167.6
	1/29/2016 10:37	1/29/2016	10:37	31	28	67	7.5	15.1	980.2	112.14	5279.7
	1/29/2016 11:50	1/29/2016	11:50	30.5	27	70	8	16.0	1134.5	129.79	5409.5
	1/29/2016 11:51	1/29/2016	11:51		21.5				16.0	1.83	5411.3
SW-146 Event 7	2/1/2016 7:58	2/1/2016	7:58	30	29	55	0	0.0			5411.3
	2/1/2016 8:16	2/1/2016	8:16	29	27	57	4	8.0	71.6	8.19	5419.5
	2/1/2016 8:17	2/1/2016	8:17	34	32	57	7.5	15.8	11.9	1.36	5420.9
	2/1/2016 9:35	2/1/2016	9:35	34	31	66	8.5	17.7	1304.8	149.27	5570.2
	2/1/2016 11:13	2/1/2016	11:13	33.5	30	73	9	18.5	1774.5	203.00	5773.2
	2/1/2016 12:34	2/1/2016	12:34	33.5	29.5	75	9	18.5	1498.3	171.40	5944.6
	2/1/2016 12:35	2/1/2016	12:35	36	31.5	75	10	21.1	19.8	2.26	5946.8
	2/1/2016 14:05	2/1/2016	14:05	36	30.5	75	11	23.2	1990.8	227.74	6174.6
	2/1/2016 15:38	2/1/2016	15:38	35	29.5	74	11.5	24.0	2193.8	250.97	6425.6
	2/1/2016 16:58	2/1/2016	16:58	35	28.5	70	12	25.1	1966.1	224.93	6650.5
	2/1/2016 16:59	2/1/2016	16:59		21.5				25.1	2.88	6653.4
	SW-146 Event 8	2/15/2016 7:50	2/15/2016	7:50	30	30	50	0	0.0		
2/15/2016 8:40		2/15/2016	8:40	29	27.5	55	4	8.0	199.3	22.79	6676.2
2/15/2016 8:41		2/15/2016	8:41	36.5	33	55	9	19.4	13.7	1.57	6677.7
2/15/2016 10:16		2/15/2016	10:16	36.5	32.5	60	10	21.5	1943.9	222.38	6900.1
2/15/2016 11:27		2/15/2016	11:27	36.5	32.5	61	10.5	22.5	1563.0	178.80	7078.9
2/15/2016 12:33		2/15/2016	12:33	36.5	31.5	64	11.5	24.6	1556.0	178.01	7256.9
2/15/2016 14:27		2/15/2016	14:27	36.5	30	67	12.5	26.7	2923.3	334.42	7591.3
2/15/2016 15:53		2/15/2016	15:53	36	29	66	13	27.6	2335.0	267.12	7858.5
2/15/2016 16:56		2/15/2016	16:56	36	29	64	13.5	28.7	1775.9	203.16	8061.6
2/15/2016 16:57		2/15/2016	16:57		22				28.7	3.29	8064.9
Total CO ₂ Mass (lbs):											8064.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-147 Event 1	10/28/2015 9:27	10/28/2015	9:27	23	22	75	0	0.0				0
	10/28/2015 9:31	10/28/2015	9:31	25	25	75	0	0.0	0.0	0.00	0.0	0.0
	10/28/2015 9:36	10/28/2015	9:36	27	26	76	0	0.0	0.0	0.00	0.0	0.0
	10/28/2015 9:41	10/28/2015	9:41	29	27	76	3	5.9	14.6	1.67	1.7	1.7
	10/28/2015 9:46	10/28/2015	9:46	31	29	76	6	12.0	44.6	5.10	6.8	6.8
	10/28/2015 9:51	10/28/2015	9:51	33	30	76	8	16.3	70.8	8.09	14.9	14.9
	10/28/2015 9:54	10/28/2015	9:54	34	31	76	9	18.6	52.3	5.99	20.9	20.9
	10/28/2015 10:16	10/28/2015	10:16	34	30	77	10	20.6	430.7	49.28	70.1	70.1
	10/28/2015 10:17	10/28/2015	10:17		22				20.6	2.36	72.5	72.5
SW-147 Event 2	11/11/2015 12:38	11/11/2015	12:38	24	24	88	0	0.0				72.5
	11/11/2015 12:44	11/11/2015	12:44	26	26	88	0	0.0	0.0	0.00	72.5	72.5
	11/11/2015 12:47	11/11/2015	12:47	28	28	89	<2	0.0	0.0	0.00	72.5	72.5
	11/11/2015 12:53	11/11/2015	12:53	30	30	89	5	9.8	29.3	3.35	75.8	75.8
	11/11/2015 12:58	11/11/2015	12:58	31	31	89	8	15.8	63.8	7.30	83.1	83.1
	11/11/2015 15:03	11/11/2015	15:03	30	28.5	86	10	19.6	2208.2	252.62	335.8	335.8
	11/11/2015 15:04	11/11/2015	15:04	32.5	31	86	14	28.1	23.8	2.73	338.5	338.5
	11/11/2015 16:05	11/11/2015	16:05	32.5	31	81	15.5	31.3	1813.2	207.43	545.9	545.9
	11/11/2015 17:11	11/11/2015	17:11	32.5	31	74	16	32.5	2106.8	241.02	786.9	786.9
11/11/2015 17:12	11/11/2015	17:12						32.5	3.72	790.7	790.7	
SW-147 Event 3	11/19/2015 7:47	11/19/2015	7:47	24	24	75	0	0.0				790.7
	11/19/2015 8:06	11/19/2015	8:06	24	24	75	0	0.0	0.0	0.00	790.7	790.7
	11/19/2015 8:08	11/19/2015	8:08	27	27	75	6	11.4	11.4	1.31	792.0	792.0
	11/19/2015 9:20	11/19/2015	9:20	27	27	75	6	11.4	824.2	94.29	886.3	886.3
	11/19/2015 10:53	11/19/2015	10:53	27	27	76	8	15.2	1241.3	142.01	1028.3	1028.3
	11/19/2015 12:42	11/19/2015	12:42	27	26.5	76	9	17.2	1765.9	202.02	1230.3	1230.3
	11/19/2015 13:31	11/19/2015	13:31	27	26	77	10	19.0	886.8	101.45	1331.7	1331.7
	11/19/2015 15:46	11/19/2015	15:46	27	25	75	10	19.1	2573.1	294.36	1626.1	1626.1
	11/19/2015 15:49	11/19/2015	15:49		21				57.2	6.55	1632.6	1632.6
SW-147 Event 4	1/25/2016 8:02	1/25/2016	8:02	27	27	40	0	0.0				1632.6
	1/25/2016 8:23	1/25/2016	8:23	25.5	24	48	5	9.6	101.0	11.55	1644.2	1644.2
	1/25/2016 8:24	1/25/2016	8:24	31	28.5	48	10.5	21.6	15.6	1.78	1646.0	1646.0
	1/25/2016 9:19	1/25/2016	9:19	33	28.5	58	10.5	21.8	1192.5	136.42	1782.4	1782.4
	1/25/2016 10:59	1/25/2016	10:59	32.5	27	64	12	24.6	2322.5	265.69	2048.1	2048.1
	1/25/2016 12:16	1/25/2016	12:16	32.5	27	66	12.5	25.6	1935.0	221.37	2269.5	2269.5
	1/25/2016 14:01	1/25/2016	14:01	32.5	27	66	13.5	27.7	2797.5	320.03	2589.5	2589.5
	1/25/2016 16:20	1/25/2016	16:20	32	25	64	14	28.6	3910.2	447.33	3036.8	3036.8
	1/25/2016 17:06	1/25/2016	17:06	32	25	60	14	28.7	1317.9	150.77	3187.6	3187.6
1/25/2016 17:08	1/25/2016	17:08		20.5				57.4	6.57	3194.2	3194.2	
SW-147 Event 5	2/3/2016 7:27	2/3/2016	7:27	29	29	70	4	7.9				3194.2
	2/3/2016 7:44	2/3/2016	7:44	29	27.5	70	6	11.8	166.9	19.09	3213.3	3213.3
	2/3/2016 7:55	2/3/2016	7:55	31	30	70	11	22.1	186.3	21.31	3234.6	3234.6
	2/3/2016 9:23	2/3/2016	9:23	31	29.5	70	12	24.1	2032.3	232.50	3467.1	3467.1
	2/3/2016 11:00	2/3/2016	11:00	30.5	28	75	14.5	28.8	2566.4	293.60	3760.7	3760.7
	2/3/2016 12:24	2/3/2016	12:24	30.5	27.5	73	15.5	30.9	2506.6	286.76	4047.4	4047.4
	2/3/2016 14:18	2/3/2016	14:18	29.5	27	75	16.5	32.4	3607.3	412.68	4460.1	4460.1
	2/3/2016 15:13	2/3/2016	15:13	29.5	27	76	16.5	32.4	1782.3	203.90	4664.0	4664.0
	2/3/2016 16:10	2/3/2016	16:10	29	26.5	73	17	33.3	1871.5	214.10	4878.1	4878.1
	2/3/2016 16:11	2/3/2016	16:11		21.5				33.3	3.81	4881.9	4881.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-147 Event 6	2/9/2016 7:24	2/9/2016	7:24	30	31	39	3	6.1			4881.9
	2/9/2016 7:41	2/9/2016	7:41	28.5	28	44	7	14.0	171.4	19.61	4901.5
	2/9/2016 7:42	2/9/2016	7:42	35	33	44	13	28.0	21.0	2.40	4903.9
	2/9/2016 9:11	2/9/2016	9:11	34	31.5	54	16.5	34.8	2791.9	319.40	5223.3
	2/9/2016 11:19	2/9/2016	11:19	33.5	30	57	18.5	38.7	4700.1	537.69	5761.0
	2/9/2016 13:09	2/9/2016	13:09	32.5	29	60	20	41.2	4394.5	502.73	6263.7
	2/9/2016 15:04	2/9/2016	15:04	32.5	28.5	60	20.5	42.3	4801.2	549.26	6813.0
	2/9/2016 16:13	2/9/2016	16:13	32	28	60	21	43.1	2943.8	336.77	7149.8
	2/9/2016 16:14	2/9/2016	16:14		22				43.1	4.93	7154.7
SW-147 Event 7	2/16/2016 7:27	2/16/2016	7:27	30	30	60	<2	0.0			7154.7
	2/16/2016 8:02	2/16/2016	8:02	29	26	61	7	13.9	242.6	27.76	7182.4
	2/16/2016 8:03	2/16/2016	8:03	36	31.5	61	10.5	22.4	18.1	2.08	7184.5
	2/16/2016 9:12	2/16/2016	9:12	36	30	64	13	27.7	1728.8	197.78	7382.3
	2/16/2016 10:59	2/16/2016	10:59	36	28	68	14.5	30.8	3126.6	357.68	7740.0
	2/16/2016 12:18	2/16/2016	12:18	36	27	70	15.5	32.8	2511.0	287.26	8027.2
	2/16/2016 15:05	2/16/2016	15:05	36	26	70	16.5	34.9	5656.5	647.10	8674.3
	2/16/2016 15:06	2/16/2016	15:06		21				34.9	4.00	8678.3
	Total CO ₂ Mass (lbs):										

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-148 Event 1	10/22/2015 12:18	10/22/2015	12:18	22	22	89	0	0.0				0
	10/22/2015 12:31	10/22/2015	12:31	23	23	89	0	0.0	0.0	0.00	0.0	0.0
	10/22/2015 12:33	10/22/2015	12:33	25	26	89	3	5.5	5.5	0.63	0.6	0.6
	10/22/2015 12:56	10/22/2015	12:56	25	25	87	4.5	8.3	158.6	18.14	18.8	18.8
	10/22/2015 12:57	10/22/2015	12:57	27	27	87	8	15.1	11.7	1.34	20.1	20.1
	10/22/2015 13:22	10/22/2015	13:22	27	27	84	8	15.1	377.8	43.22	63.3	63.3
	10/22/2015 13:24	10/22/2015	13:24	29	30	84	10	19.4	34.5	3.95	67.3	67.3
	10/22/2015 14:10	10/22/2015	14:10	30	30	81	10.5	20.6	920.0	105.25	172.5	172.5
	10/22/2015 15:03	10/22/2015	15:03	30	29	80	10	19.7	1067.9	122.17	294.7	294.7
	10/22/2015 17:06	10/22/2015	17:06	29	29.5	78	10.5	20.5	2467.5	282.28	577.0	577.0
10/22/2015 17:07	10/22/2015	17:07		20				20.5	2.34	579.3	579.3	
SW-148 Event 2	11/17/2015 7:50	11/17/2015	7:50	25.5	25	69	0	0.0				579.3
	11/17/2015 8:49	11/17/2015	8:49	25	24	74	0	0.0	0.0	0.00	579.3	579.3
	11/17/2015 8:50	11/17/2015	8:50	29	27.5	74	4	7.8	3.9	0.45	579.8	579.8
	11/17/2015 11:07	11/17/2015	11:07	29	27	82	5	9.7	1200.5	137.34	717.1	717.1
	11/17/2015 13:00	11/17/2015	13:00	28.5	26	84	6	11.6	1201.0	137.40	854.5	854.5
	11/17/2015 14:20	11/17/2015	14:20	28.5	26	81	6	11.6	925.6	105.89	960.4	960.4
	11/17/2015 15:45	11/17/2015	15:45	28.5	26	76	6	11.6	987.3	112.94	1073.3	1073.3
	11/17/2015 16:18	11/17/2015	16:18	28.5	26	73	6	11.7	384.8	44.02	1117.3	1117.3
	11/17/2015 16:19	11/17/2015	16:19		21				11.7	1.34	1118.7	1118.7
SW-148 Event 3	11/21/2015 12:42	11/21/2015	12:42	26	25	78	0	0.0				1118.7
	11/21/2015 13:13	11/21/2015	13:13	25.5	24	78	<2	0.0	0.0	0.00	1118.7	1118.7
	11/21/2015 13:15	11/21/2015	13:15	30.5	28.5	78	4	7.9	7.9	0.91	1119.6	1119.6
	11/21/2015 14:27	11/21/2015	14:27	30	28	75	5	9.9	641.1	73.34	1192.9	1192.9
	11/21/2015 15:30	11/21/2015	15:30	30	27.5	72	6	11.9	685.8	78.46	1271.4	1271.4
	11/21/2015 15:36	11/21/2015	15:36	32	29.5	72	7	14.2	78.2	8.95	1280.3	1280.3
	11/21/2015 17:10	11/21/2015	17:10	32	28.5	72	8	16.2	1428.7	163.44	1443.8	1443.8
	11/21/2015 17:13	11/21/2015	17:13		19				48.6	5.56	1449.3	1449.3
SW-148 Event 4	12/2/2015 8:11	12/2/2015	8:11	26	25	67	0	0.0				1449.3
	12/2/2015 9:08	12/2/2015	9:08	25	24	71	0	0.0	0.0	0.00	1449.3	1449.3
	12/2/2015 9:09	12/2/2015	9:09	30	28	71	6	11.9	6.0	0.68	1450.0	1450.0
	12/2/2015 11:33	12/2/2015	11:33	30	28	81	5.5	10.8	1635.1	187.06	1637.1	1637.1
	12/2/2015 12:49	12/2/2015	12:49	30	27.5	81	6	11.8	858.6	98.23	1735.3	1735.3
	12/2/2015 14:14	12/2/2015	14:14	28	25.5	85	6	11.5	988.7	113.11	1848.4	1848.4
	12/2/2015 14:18	12/2/2015	14:18	32	28.5	85	8	16.0	55.0	6.29	1854.7	1854.7
	12/2/2015 15:48	12/2/2015	15:48	32	28	72	9	18.2	1541.2	176.31	2031.0	2031.0
	12/2/2015 17:04	12/2/2015	17:04	31.5	27.5	72	10	20.2	1458.9	166.90	2197.9	2197.9
	12/2/2015 17:07	12/2/2015	17:07		21.5				60.5	6.92	2204.8	2204.8
SW-148 Event 5	12/4/2015 7:50	12/4/2015	7:50	26	25	56	0	0.0				2204.8
	12/4/2015 8:16	12/4/2015	8:16	25.5	23.5	58	3	5.7	74.3	8.50	2213.3	2213.3
	12/4/2015 8:19	12/4/2015	8:19	31	28.5	58	7.5	15.2	31.4	3.60	2216.9	2216.9
	12/4/2015 9:27	12/4/2015	9:27	30	28	65	7.5	15.0	1027.1	117.50	2334.4	2334.4
	12/4/2015 10:45	12/4/2015	10:45	30	27	68	8	15.9	1204.5	137.79	2472.2	2472.2
	12/4/2015 12:15	12/4/2015	12:15	30	27	70	8	15.9	1431.2	163.73	2635.9	2635.9
	12/4/2015 12:16	12/4/2015	12:16		21				15.9	1.82	2637.8	2637.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-148 Event 6	12/7/2015 7:55	12/7/2015	7:55	27	26.5	59	0	0.0				2637.8
	12/7/2015 8:31	12/7/2015	8:31	26.5	24.5	61	5	9.6	173.0	19.79	2657.6	
	12/7/2015 8:33	12/7/2015	8:33	30	27	61	8	16.0	25.6	2.93	2660.5	
	12/7/2015 9:55	12/7/2015	9:55	30	26.5	66	8.5	16.9	1351.9	154.66	2815.1	
	12/7/2015 11:08	12/7/2015	11:08	29.5	25.5	70	9	17.8	1267.1	144.96	2960.1	
	12/7/2015 11:10	12/7/2015	11:10	34	28.5	70	11	22.8	40.6	4.64	2964.8	
	12/7/2015 12:47	12/7/2015	12:47	34	28	74	12.5	25.8	2359.1	269.88	3234.6	
	12/7/2015 14:34	12/7/2015	14:34	34	27	75	13	26.8	2817.2	322.29	3556.9	
	12/7/2015 16:12	12/7/2015	16:12	34	26.5	73	14	29.0	2733.5	312.71	3869.6	
	12/7/2015 17:09	12/7/2015	17:09	34	26.5	68	14	29.1	1654.3	189.26	4058.9	
	12/7/2015 17:12	12/7/2015	17:12		19				87.3	9.99	4068.9	
	SW-148 Event 7	12/10/2015 7:49	12/10/2015	7:49	27	27	60	0	0.0			
12/10/2015 8:15		12/10/2015	8:15	26.5	25	64	4	7.7	99.7	11.40	4080.3	
12/10/2015 8:16		12/10/2015	8:16	32	30	64	7.5	15.3	11.5	1.31	4081.6	
12/10/2015 9:19		12/10/2015	9:19	32	28	72	9	18.2	1057.0	120.92	4202.5	
12/10/2015 10:29		12/10/2015	10:29	31.5	27	76	10	20.1	1341.0	153.41	4355.9	
12/10/2015 11:29		12/10/2015	11:29	31.5	26.5	78	10	20.0	1203.4	137.67	4493.6	
12/10/2015 12:19		12/10/2015	12:19	31.5	26.5	78	10.5	21.0	1026.9	117.48	4611.1	
12/10/2015 13:18		12/10/2015	13:18	31.5	26	78	11	22.0	1270.9	145.39	4756.5	
12/10/2015 14:32		12/10/2015	14:32	31.5	26	78	11.5	23.0	1668.1	190.83	4947.3	
12/10/2015 15:32		12/10/2015	15:32	31.5	25.5	76	12	24.1	1414.0	161.77	5109.1	
12/10/2015 16:45		12/10/2015	16:45	31	25	69	12	24.1	1759.8	201.32	5310.4	
12/10/2015 16:46		12/10/2015	16:46		19				24.1	2.76	5313.1	
SW-148 Event 8		12/14/2015 7:52	12/14/2015	7:52	28	28	72	<2	0.0			
	12/14/2015 8:20	12/14/2015	8:20	27.5	25	72	5	9.6	134.7	15.42	5328.5	
	12/14/2015 8:22	12/14/2015	8:22	33	30	72	9	18.4	28.1	3.21	5331.8	
	12/14/2015 10:11	12/14/2015	10:11	33	29	74	10	20.4	2118.9	242.40	5574.2	
	12/14/2015 12:03	12/14/2015	12:03	32	28	77	10	20.2	2274.2	260.17	5834.3	
	12/14/2015 13:40	12/14/2015	13:40	31	27	77	10	19.9	1945.5	222.56	6056.9	
	12/14/2015 15:02	12/14/2015	15:02	32	27	77	10	20.2	1644.6	188.15	6245.0	
	12/14/2015 16:00	12/14/2015	16:00	32	27	76	10	20.2	1170.2	133.87	6378.9	
	12/14/2015 17:05	12/14/2015	17:05	32.5	27	75	11	22.3	1382.3	158.14	6537.1	
	12/14/2015 17:09	12/14/2015	17:09		21				89.4	10.23	6547.3	
	SW-148 Event 9	1/12/2016 7:42	1/12/2016	7:42	27	27	37	0	0.0			
1/12/2016 8:11		1/12/2016	8:11	27	25.5	45	4.5	8.8	128.3	14.67	6561.9	
1/12/2016 8:12		1/12/2016	8:12	33	30.5	45	7.5	15.8	12.3	1.41	6563.4	
1/12/2016 10:07		1/12/2016	10:07	32	28	64	9	18.4	1964.6	224.75	6788.1	
1/12/2016 11:27		1/12/2016	11:27	32	28	68	9.5	19.3	1508.3	172.55	6960.7	
1/12/2016 12:39		1/12/2016	12:39	31.5	27.5	68	10	20.2	1424.2	162.92	7123.6	
1/12/2016 14:19		1/12/2016	14:19	31	27	69	10	20.1	2016.8	230.72	7354.3	
1/12/2016 15:57		1/12/2016	15:57	31	27	68	10	20.1	1971.0	225.48	7579.8	
1/12/2016 17:07		1/12/2016	17:07	31	27	64	10	20.2	1411.3	161.45	7741.2	
1/12/2016 17:11		1/12/2016	17:11		21				80.8	9.24	7750.5	
SW-148 Event 10	2/2/2016 8:22	2/2/2016	8:22	28	28	62	0	0.0				7750.5
	2/2/2016 8:46	2/2/2016	8:46	27.5	26	64	4.5	8.7	104.8	11.98	7762.5	
	2/2/2016 8:49	2/2/2016	8:49	34	31.5	64	7.5	15.6	36.6	4.18	7766.6	
	2/2/2016 10:11	2/2/2016	10:11	33	29.5	72	9	18.4	1397.4	159.86	7926.5	
	2/2/2016 12:19	2/2/2016	12:19	33	28.5	74	9.5	19.4	2422.8	277.17	8203.7	
	2/2/2016 14:15	2/2/2016	14:15	32.5	28	74	10	20.3	2305.9	263.79	8467.5	
	2/2/2016 14:16	2/2/2016	14:16		21.5				20.3	2.33	8469.8	

LCP Chemicals Site, Brunswick, GA
SW-148

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
Total CO ₂ Mass (lbs):											8469.8	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-149 Event 1	10/23/2015 8:16	10/23/2015	8:16	22	18	70	0	0.0			0
	10/23/2015 8:32	10/23/2015	8:32	22	18	71	0	0.0	0.0	0.00	0.0
	10/23/2015 8:33	10/23/2015	8:33	24	26	71	0	0.0	0.0	0.00	0.0
	10/23/2015 8:53	10/23/2015	8:53	25	27	72	0	0.0	0.0	0.00	0.0
	10/23/2015 8:54	10/23/2015	8:54	27	28	72	0	0.0	0.0	0.00	0.0
	10/23/2015 9:14	10/23/2015	9:14	27	28	75	<2	0.0	0.0	0.00	0.0
	10/23/2015 9:15	10/23/2015	9:15	29	30	75	4	7.8	3.9	0.45	0.4
	10/23/2015 9:39	10/23/2015	9:39	29	30	78	5	9.7	210.7	24.10	24.5
	10/23/2015 9:40	10/23/2015	9:40	31	32	78	6	12.0	10.8	1.24	25.8
	10/23/2015 10:37	10/23/2015	10:37	31	31	78	6	12.0	681.5	77.97	103.8
	10/23/2015 10:38	10/23/2015	10:38	32	32	78	9	18.1	15.0	1.72	105.5
	10/23/2015 11:34	10/23/2015	11:34	32	32	78	8	16.1	959.0	109.71	215.2
	10/23/2015 12:53	10/23/2015	12:53	32	32	80	9	18.1	1351.5	154.61	369.8
10/23/2015 12:54	10/23/2015	12:54		25				18.1	2.07	371.9	
SW-149 Event 2	11/19/2015 7:47	11/19/2015	7:47	22	22	75	0	0.0			371.9
	11/19/2015 8:07	11/19/2015	8:07	21.5	21	75	0	0.0	0.0	0.00	371.9
	11/19/2015 8:09	11/19/2015	8:09	27	26	75	0	0.0	0.0	0.00	371.9
	11/19/2015 9:22	11/19/2015	9:22	27	26	75	<2	0.0	0.0	0.00	371.9
	11/19/2015 9:23	11/19/2015	9:23	30	28	75	5	9.9	4.9	0.57	372.4
	11/19/2015 10:51	11/19/2015	10:51	30	28.5	76	4.5	8.9	825.7	94.46	466.9
	11/19/2015 12:40	11/19/2015	12:40	29.5	27.5	76	5	9.8	1019.1	116.59	583.5
	11/19/2015 13:29	11/19/2015	13:29	29	27	77	5	9.7	479.3	54.84	638.3
	11/19/2015 15:47	11/19/2015	15:47	29	26.5	75	6	11.7	1481.5	169.49	807.8
11/19/2015 15:48	11/19/2015	15:48		22				11.7	1.34	809.1	
SW-149 Event 3	11/24/2015 7:19	11/24/2015	7:19	26	25	48	0	0.0			809.1
	11/24/2015 7:49	11/24/2015	7:49	25.5	24.5	51	<2	0.0	0.0	0.00	809.1
	11/24/2015 7:51	11/24/2015	7:51	32	30	51	5	10.3	10.3	1.18	810.3
	11/24/2015 8:53	11/24/2015	8:53	31.5	29.5	63	5.5	11.2	667.4	76.35	886.7
	11/24/2015 10:34	11/24/2015	10:34	31.5	29	68	7	14.2	1280.0	146.43	1033.1
	11/24/2015 10:35	11/24/2015	10:35	33	30	68	8	16.5	15.3	1.75	1034.9
	11/24/2015 11:33	11/24/2015	11:33	32	29	70	8	16.2	948.1	108.47	1143.3
	11/24/2015 11:34	11/24/2015	11:34		23				16.2	1.86	1145.2
SW-149 Event 4	11/30/2015 12:10	11/30/2015	12:10	27	26	93	0	0.0			1145.2
	11/30/2015 12:44	11/30/2015	12:44	26.5	25	90	<2	0.0	0.0	0.00	1145.2
	11/30/2015 12:45	11/30/2015	12:45	30	28	90	5	9.7	4.9	0.56	1145.7
	11/30/2015 14:37	11/30/2015	14:37	30	28	82	5	9.8	1095.1	125.28	1271.0
	11/30/2015 15:54	11/30/2015	15:54	30	28	78	5.5	10.8	795.1	90.96	1362.0
	11/30/2015 17:00	11/30/2015	17:00	30	28	72	6	11.9	750.1	85.81	1447.8
	11/30/2015 17:01	11/30/2015	17:01		22				11.9	1.36	1449.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-149 Event 5	12/9/2015 7:33	12/9/2015	7:33	27	26	55	0	0.0				1449.2
	12/9/2015 8:11	12/9/2015	8:11	26.5	25	58	3	5.8		109.9	12.57	1461.7
	12/9/2015 8:12	12/9/2015	8:12	33	31.5	58	9	18.7		12.2	1.40	1463.1
	12/9/2015 9:11	12/9/2015	9:11	33	31	68	8	16.5		1036.7	118.60	1581.7
	12/9/2015 10:19	12/9/2015	10:19	32.5	30	72	8	16.3		1113.5	127.39	1709.1
	12/9/2015 11:40	12/9/2015	11:40	32.5	29	77	8	16.2		1317.1	150.67	1859.8
	12/9/2015 12:47	12/9/2015	12:47	32.5	28.5	78	9.5	19.2		1188.1	135.91	1995.7
	12/9/2015 14:07	12/9/2015	14:07	32.5	28	73	10	20.4		1583.9	181.20	2176.9
	12/9/2015 15:11	12/9/2015	15:11	32.5	28	76	10	20.3		1300.8	148.81	2325.7
	12/9/2015 16:46	12/9/2015	16:46	32.5	28	72	10	20.4	overnight	1931.8	221.00	2546.7
	12/10/2015 7:42	12/10/2015	7:42	32	25.5	60	13.5	27.7		21529.6	2462.99	5009.7
	12/10/2015 7:43	12/10/2015	7:43		21.5					27.7	3.17	5012.9
SW-149 Event 6	12/16/2015 7:51	12/16/2015	7:51	28	26	68	0	0.0				5012.9
	12/16/2015 8:18	12/16/2015	8:18	27	25	68	<2	0.0		0.0	0.00	5012.9
	12/16/2015 8:21	12/16/2015	8:21	34	30.5	68	8	16.6		24.9	2.85	5015.7
	12/16/2015 9:26	12/16/2015	9:26	34	30	70	8.5	17.6		1113.3	127.36	5143.1
	12/16/2015 11:03	12/16/2015	11:03	33	28	74	9	18.4		1747.4	199.91	5343.0
	12/16/2015 12:32	12/16/2015	12:32	32	27	75	9.5	19.2		1673.0	191.39	5534.4
	12/16/2015 14:38	12/16/2015	14:38	31.5	27	74	10	20.1		2476.6	283.32	5817.7
	12/16/2015 15:59	12/16/2015	15:59	33.5	27	72	12	24.7		1815.4	207.69	6025.4
	12/16/2015 17:08	12/16/2015	17:08	33.5	27.5	71	12	24.7		1705.9	195.15	6220.5
	12/16/2015 17:13	12/16/2015	17:13		22.5					123.7	14.15	6234.7
	SW-149 Event 7	1/6/2016 7:57	1/6/2016	7:57	27	26	45	0	0.0			
1/6/2016 8:25		1/6/2016	8:25	26	24	49	<2	0.0		0.0	0.00	6234.7
1/6/2016 8:26		1/6/2016	8:26	33	29	49	9	18.9		9.4	1.08	6235.8
1/6/2016 10:32		1/6/2016	10:32	33	29	59	10	20.7		2495.6	285.49	6521.3
1/6/2016 12:04		1/6/2016	12:04	32.5	28.5	62	10	20.6		1900.9	217.47	6738.7
1/6/2016 13:50		1/6/2016	13:50	32.5	28	62	10	20.6		2181.0	249.51	6988.2
1/6/2016 17:11		1/6/2016	17:11	31	28	59	10.5	21.3		4210.2	481.65	7469.9
1/6/2016 17:12		1/6/2016	17:12		24					21.3	2.44	7472.3
SW-149 Event 8	1/14/2016 7:42	1/14/2016	7:42	28.5	28.5	42	<2	0.0				7472.3
	1/14/2016 8:05	1/14/2016	8:05	28	26	50	5.5	10.9		125.2	14.32	7486.6
	1/14/2016 8:07	1/14/2016	8:07	34	31	50	9	19.0		29.9	3.42	7490.1
	1/14/2016 9:18	1/14/2016	9:18	33	29	60	10	20.7		1411.9	161.52	7651.6
	1/14/2016 11:25	1/14/2016	11:25	32.5	27.5	65	11	22.6		2749.2	314.51	7966.1
	1/14/2016 13:09	1/14/2016	13:09	32.5	27.5	64	11.5	23.6		2401.4	274.73	8240.8
	1/14/2016 14:25	1/14/2016	14:25	32.5	27.5	62	11.5	23.7		1796.6	205.53	8446.3
	1/14/2016 16:10	1/14/2016	16:10	32.5	27	60	12.5	25.8		2595.3	296.90	8743.2
	1/14/2016 16:58	1/14/2016	16:58	32.5	27	60	12.5	25.8		1237.0	141.52	8884.8
	1/14/2016 16:59	1/14/2016	16:59		23					25.8	2.95	8887.7
SW-149 Event 9	1/28/2016 7:26	1/28/2016	7:26	27	27	61	3	5.8				8887.7
	1/28/2016 7:42	1/28/2016	7:42	27	25	60	4	7.7		108.4	12.40	8900.1
	1/28/2016 7:44	1/28/2016	7:44	35	32.5	60	10	21.2		28.9	3.31	8903.4
	1/28/2016 9:44	1/28/2016	9:44	34.5	30	60	11	23.2		2659.6	304.26	9207.7
	1/28/2016 11:48	1/28/2016	11:48	33.5	28.5	62	11.5	23.9		2918.8	333.91	9541.6
	1/28/2016 14:11	1/28/2016	14:11	34	28	64	12	25.0		3500.1	400.41	9942.0
	1/28/2016 15:19	1/28/2016	15:19	34	27.5	62	12.5	26.1		1739.7	199.03	10141.0
	1/28/2016 17:03	1/28/2016	17:03	34	27	60	13	27.2		2774.9	317.45	10458.5
1/28/2016 17:05	1/28/2016	17:05		22.5					54.5	6.23	10464.7	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-149 Event 10	2/17/2016 7:27	2/17/2016	7:27	32.5	32.5	52	4	8.3			10464.7
	2/17/2016 10:24	2/17/2016	10:24	32	27	67	10	20.4	2538.0	290.34	10755.1
	2/17/2016 12:54	2/17/2016	12:54	31.5	26.5	72	10.5	21.2	3114.4	356.29	11111.3
	2/17/2016 14:03	2/17/2016	14:03	31.5	26	72	10.5	21.2	1460.2	167.04	11278.4
	2/17/2016 15:06	2/17/2016	15:06	31.5	26	73	10.5	21.1	1332.6	152.44	11430.8
	2/17/2016 16:19	2/17/2016	16:19	31.5	26	71	11	22.2	1581.6	180.94	11611.8
	2/17/2016 16:20	2/17/2016	16:20		23				22.2	2.54	11614.3
SW-149 Event 11	2/23/2016 7:27	2/23/2016	7:27	31	31	67	4	8.1			11614.3
	2/23/2016 7:47	2/23/2016	7:47	30.5	27.5	67	7	14.0	220.8	25.26	11639.6
	2/23/2016 7:50	2/23/2016	7:50	36	32	67	10.5	22.3	54.5	6.23	11645.8
	2/23/2016 9:00	2/23/2016	9:00	36.5	31	67	12	25.6	1676.5	191.79	11837.6
	2/23/2016 11:25	2/23/2016	11:25	37	30	76	13	27.6	3859.8	441.56	12279.2
	2/23/2016 13:29	2/23/2016	13:29	37	29.5	82	14	29.6	3547.6	405.84	12685.0
	2/23/2016 13:30	2/23/2016	13:30		25				29.6	3.38	12688.4
Total CO ₂ Mass (lbs):											12688.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-150 Event 1	10/20/2015 10:37	10/20/2015	10:37	11	11	73	0	0.0				0	
	10/20/2015 10:44	10/20/2015	10:44	10	11	73	0	0.0	0.0	0.00	0.0		
	10/20/2015 10:45	10/20/2015	10:45	18	19.5	73	0	0.0	0.0	0.00	0.0		
	10/20/2015 13:56	10/20/2015	13:56	18.5	20	80	0	0.0	0.0	0.00	0.0		
	10/20/2015 13:58	10/20/2015	13:58	24	24	80	5	9.1	9.1	1.05	1.0		
	10/20/2015 15:08	10/20/2015	15:08	24	24	80	6	11.0	703.9	80.53	81.6		
	10/20/2015 16:20	10/20/2015	16:20	23.5	23.5	80	7	12.7	852.6	97.54	179.1		
	10/20/2015 16:21	10/20/2015	16:21	26	25	80	10	18.8	15.7	1.80	180.9		
	10/20/2015 17:04	10/20/2015	17:04	26	25	80	10.5	19.7	826.6	94.57	275.5		
	10/20/2015 17:05	10/20/2015	17:05		21				19.7	2.25	277.7		
SW-150 Event 2	11/17/2015 7:51	11/17/2015	7:51	26	27	69	0	0.0				277.7	
	11/17/2015 8:47	11/17/2015	8:47	25	26	74	5	9.3	260.8	29.83	307.6		
	11/17/2015 8:51	11/17/2015	8:51	27	27	74	10	19.1	56.8	6.50	314.1		
	11/17/2015 11:06	11/17/2015	11:06	27	25	82	12	22.7	2824.1	323.08	637.1		
	11/17/2015 13:01	11/17/2015	13:01	27	25	84	13	24.6	2721.6	311.35	948.5		
	11/17/2015 14:19	11/17/2015	14:19	26	24.5	81	14	26.2	1982.1	226.75	1175.2		
	11/17/2015 15:46	11/17/2015	15:46	26	24.5	76	14	26.4	2287.7	261.71	1437.0		
	11/17/2015 16:15	11/17/2015	16:15	26	24.5	73	14	26.4	765.5	87.57	1524.5		
	11/17/2015 16:16	11/17/2015	16:16		21				26.4	3.02	1527.6		
	12/17/2015 7:27	12/17/2015	7:27	28	27	72	0	0.0				1527.6	
SW-150 Event 3	12/17/2015 7:57	12/17/2015	7:57	27.5	25.5	72	4	7.7	115.5	13.21	1540.8		
	12/17/2015 8:01	12/17/2015	8:01	33	29	72	9	18.4	52.3	5.98	1546.7		
	12/17/2015 9:27	12/17/2015	9:27	33	28	75	10	20.4	1670.9	191.16	1737.9		
	12/17/2015 10:37	12/17/2015	10:37	33	27.5	78	11	22.4	1498.9	171.47	1909.4		
	12/17/2015 11:37	12/17/2015	11:37	32.5	26.5	77	11.5	23.3	1371.6	156.91	2066.3		
	12/17/2015 12:50	12/17/2015	12:50	32.5	26.5	77	12	24.3	1739.2	198.96	2265.2		
	12/17/2015 13:35	12/17/2015	13:35	32.5	26.5	77	12	24.3	1094.9	125.26	2390.5		
	12/17/2015 14:35	12/17/2015	14:35	32.5	26.5	75	12	24.4	1461.3	167.17	2557.7		
	12/17/2015 15:53	12/17/2015	15:53	32.5	26.5	72	12	24.4	1904.3	217.85	2775.5		
	12/17/2015 15:55	12/17/2015	15:55		21				48.9	5.59	2781.1		
	SW-150 Event 4	12/19/2015 10:47	12/19/2015	10:47	28	27	64	<2	0.0				2781.1
		12/19/2015 11:25	12/19/2015	11:25	28	25	65	4	7.8	148.2	16.95	2798.1	
		12/19/2015 11:26	12/19/2015	11:26	33	30	65	9	18.6	13.2	1.51	2799.6	
12/19/2015 12:52		12/19/2015	12:52	33	28.5	69	10	20.5	1681.6	192.37	2991.9		
12/19/2015 13:44		12/19/2015	13:44	32.5	28.5	68	10	20.5	1065.9	121.94	3113.9		
12/19/2015 14:54		12/19/2015	14:54	32.5	27	70	11	22.5	1501.8	171.81	3285.7		
12/19/2015 15:45		12/19/2015	15:45	32.5	26.5	69	11	22.5	1145.8	131.08	3416.8		
12/19/2015 17:08		12/19/2015	17:08	33	26	64	12.5	25.8	2003.8	229.23	3646.0		
12/19/2015 17:09		12/19/2015	17:09		22				25.8	2.95	3649.0		
SW-150 Event 5	12/22/2015 7:36	12/22/2015	7:36	29	28	71	<2	0.0				3649.0	
	12/22/2015 8:04	12/22/2015	8:04	28.5	26	70	4	7.8	109.3	12.50	3661.5		
	12/22/2015 8:05	12/22/2015	8:05	32	28	70	8	16.2	12.0	1.38	3662.8		
	12/22/2015 10:27	12/22/2015	10:27	31.5	27	73	9.5	19.1	2511.4	287.30	3950.1		
	12/22/2015 10:59	12/22/2015	10:59	31.5	27	73	9.5	19.1	612.1	70.02	4020.2		
	12/22/2015 11:00	12/22/2015	11:00		22.5				19.1	2.19	4022.4		

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-150 Event 6	1/5/2016 7:31	1/5/2016	7:31	28	26.5	42	0	0.0				4022.4
	1/5/2016 7:57	1/5/2016	7:57	27	24	47	5	9.8	127.5	14.59		4036.9
	1/5/2016 7:58	1/5/2016	7:58	32	27	47	12	24.9	17.4	1.99		4038.9
	1/5/2016 9:31	1/5/2016	9:31	32	26.5	56	12	24.7	2308.2	264.06		4303.0
	1/5/2016 11:19	1/5/2016	11:19	31	25.5	60	12.5	25.4	2703.1	309.24		4612.2
	1/5/2016 12:52	1/5/2016	12:52	30.5	24	60	13.5	27.2	2444.9	279.70		4891.9
	1/5/2016 14:10	1/5/2016	14:10	30	24	58	14	28.1	2159.1	247.00		5138.9
	1/5/2016 14:15	1/5/2016	14:15		19				140.7	16.09		5155.0
SW-150 Event 7	1/19/2016 7:42	1/19/2016	7:42	28	27	44	0	0.0				5155.0
	1/19/2016 8:06	1/19/2016	8:06	26.5	25	46	0	0.0	0.0	0.00		5155.0
	1/19/2016 8:07	1/19/2016	8:07	31.5	30.5	46	7	14.5	7.2	0.83		5155.8
	1/19/2016 9:50	1/19/2016	9:50	31.5	29	46	10.5	21.7	1864.3	213.27		5369.1
	1/19/2016 11:39	1/19/2016	11:39	33.5	27.5	62	12	25.0	2543.8	291.01		5660.1
	1/19/2016 14:26	1/19/2016	14:26	33	26	64	13	26.8	4324.8	494.76		6154.9
	1/19/2016 16:10	1/19/2016	16:10	30	26	64	14	28.0	2849.8	326.02		6480.9
	1/19/2016 17:16	1/19/2016	17:16	30	26	59	14	28.1	1850.3	211.68		6692.6
	1/19/2016 17:18	1/19/2016	17:18		21				56.2	6.43		6699.0
SW-150 Event 8	1/21/2016 7:48	1/21/2016	7:48	27	25	50	0	0.0				6699.0
	1/21/2016 7:59	1/21/2016	7:59	26	25	51	3	5.8	31.8	3.64		6702.6
	1/21/2016 8:00	1/21/2016	8:00	32.5	31	51	10	20.8	13.3	1.52		6704.2
	1/21/2016 9:08	1/21/2016	9:08	35	29.5	64	12	25.3	1567.5	179.32		6883.5
	1/21/2016 12:54	1/21/2016	12:54	35	27.5	64	14	29.5	6193.5	708.54		7592.0
	1/21/2016 15:17	1/21/2016	15:17	33	27	64	15	31.0	4324.4	494.71		8086.7
	1/21/2016 17:01	1/21/2016	17:01	35	26.5	61	15.5	32.8	3314.5	379.18		8465.9
	1/21/2016 17:03	1/21/2016	17:03		22				65.5	7.50		8473.4
	SW-150 Event 9	1/27/2016 7:21	1/27/2016	7:21	26.5	26	59	0	0.0			
1/27/2016 7:42		1/27/2016	7:42	26.5	25	59	3.5	6.7	70.8	8.10		8481.5
1/27/2016 7:43		1/27/2016	7:43	32	28	59	8	16.4	11.6	1.32		8482.8
1/27/2016 9:11		1/27/2016	9:11	31	28	61	8.5	17.2	1480.3	169.35		8652.2
1/27/2016 10:47		1/27/2016	10:47	31	26.5	70	10	20.1	1790.6	204.85		8857.0
1/27/2016 10:49		1/27/2016	10:49	35	29	70	12	25.1	45.2	5.17		8862.2
1/27/2016 12:06		1/27/2016	12:06	35	28	70	14	29.3	2097.7	239.98		9102.2
1/27/2016 13:56		1/27/2016	13:56	34.5	27.5	66	14.5	30.4	3282.9	375.56		9477.8
1/27/2016 15:56		1/27/2016	15:56	34.5	27	68	14.5	30.3	3638.4	416.24		9894.0
1/27/2016 16:55		1/27/2016	16:55	34	26	64	15.5	32.3	1847.6	211.36		10105.4
1/27/2016 16:56		1/27/2016	16:56		22				32.3	3.70		10109.1
SW-150 Event 10	2/4/2016 7:33	2/4/2016	7:33	31.5	30.5	70	<2	0.0				10109.1
	2/4/2016 7:49	2/4/2016	7:49	30	28.5	70	7	13.9	111.2	12.72		10121.8
	2/4/2016 7:50	2/4/2016	7:50	35	33	70	13	27.2	20.6	2.35		10124.1
	2/4/2016 11:18	2/4/2016	11:18	34	30.5	63	19.5	40.7	7068.8	808.67		10932.8
	2/4/2016 14:22	2/4/2016	14:22	32.5	29	62	21	43.2	7722.0	883.40		11816.2
	2/4/2016 15:33	2/4/2016	15:33	32.5	28.5	61	21.5	44.3	3106.0	355.32		12171.5
	2/4/2016 16:57	2/4/2016	16:57	32.5	28	58	22	45.4	3768.7	431.14		12602.7
	2/4/2016 16:59	2/4/2016	16:59		23				90.9	10.40		12613.1
	Total CO ₂ Mass (lbs):											12613.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-151 Event 1	10/23/2015 8:04	10/23/2015	8:04	20	23	70	0	0.0				0
	10/23/2015 8:24	10/23/2015	8:24	20	21	71	4	7.0		69.8	7.99	8.0
	10/23/2015 8:25	10/23/2015	8:25	22	23	71	6	10.8		8.9	1.02	9.0
	10/23/2015 8:43	10/23/2015	8:43	22	23	71	6	10.8		193.9	22.18	31.2
	10/23/2015 8:43	10/23/2015	8:43	24	25	71	8.5	15.7		0.0	0.00	31.2
	10/23/2015 9:04	10/23/2015	9:04	24	24	76	9	16.5		338.0	38.67	69.9
	10/23/2015 9:05	10/23/2015	9:05	26	27	76	11	20.7		18.6	2.13	72.0
	10/23/2015 9:32	10/23/2015	9:32	26	26	79	11.5	21.6		571.0	65.33	137.3
	10/23/2015 10:32	10/23/2015	10:32	26	26	78	12	22.5		1324.2	151.48	288.8
	10/23/2015 11:30	10/23/2015	11:30	26	26	78	13	24.4		1362.4	155.85	444.6
	10/23/2015 12:40	10/23/2015	12:40	26	26	78	13	24.4		1710.0	195.62	640.3
10/23/2015 12:41	10/23/2015	12:41		18					24.4	2.79	643.1	
SW-151 Event 2	11/13/2015 7:57	11/13/2015	7:57	20	20	69	0	0.0				643.1
	11/13/2015 8:07	11/13/2015	8:07	26	23	70	9	17.0		85.2	9.75	652.8
	11/13/2015 8:16	11/13/2015	8:16	24	20	71	13	24.0		184.6	21.12	673.9
	11/13/2015 8:18	11/13/2015	8:18		7					47.9	5.49	679.4
SW-151 Event 3	11/19/2015 7:40	11/19/2015	7:40	18	18	76	0	0.0				679.4
	11/19/2015 7:55	11/19/2015	7:55	17	17	76	0	0.0		0.0	0.00	679.4
	11/19/2015 8:00	11/19/2015	8:00	23	22	76	4	7.2		18.1	2.07	681.5
	11/19/2015 8:12	11/19/2015	8:12	23	19	76	11	19.9		163.0	18.65	700.1
	11/19/2015 9:14	11/19/2015	9:14	22	18.5	76	13.5	24.1		1365.3	156.20	856.3
	11/19/2015 10:48	11/19/2015	10:48	22	18.5	76	14	25.0		2309.3	264.19	1120.5
	11/19/2015 12:46	11/19/2015	12:46	22	18	77	14	25.0		2950.2	337.51	1458.0
	11/19/2015 13:33	11/19/2015	13:33	22	18	77	14.5	25.9		1195.5	136.77	1594.8
	11/19/2015 15:35	11/19/2015	15:35	22	18.5	76	14.5	25.9		3159.2	361.41	1956.2
	11/19/2015 15:36	11/19/2015	15:36		4					25.9	2.96	1959.2
SW-151 Event 4	11/24/2015 7:12	11/24/2015	7:12	23	22	52	0	0.0				1959.2
	11/24/2015 7:39	11/24/2015	7:39	23	21	54	0	0.0		0.0	0.00	1959.2
	11/24/2015 7:41	11/24/2015	7:41	25	23	54	3	5.7		5.7	0.65	1959.8
	11/24/2015 8:48	11/24/2015	8:48	25	22.5	66	5.5	10.3		536.8	61.41	2021.2
	11/24/2015 10:31	11/24/2015	10:31	24.5	22	70	6	11.1		1105.9	126.51	2147.7
	11/24/2015 11:26	11/24/2015	11:26	24.5	22	72	6	11.1		612.5	70.08	2217.8
11/24/2015 11:28	11/24/2015	11:28		16.5					22.3	2.55	2220.4	
SW-151 Event 5	11/30/2015 12:03	11/30/2015	12:03	24	23.5	92	0	0.0				2220.4
	11/30/2015 12:35	11/30/2015	12:35	23	21	90	4	7.1		114.4	13.09	2233.4
	11/30/2015 12:37	11/30/2015	12:37	26	24	90	7	13.0		20.2	2.31	2235.8
	11/30/2015 14:32	11/30/2015	14:32	27	24.5	84	6.5	12.3		1454.8	166.43	2402.2
	11/30/2015 15:48	11/30/2015	15:48	27	24.5	80	6.5	12.3		936.2	107.10	2509.3
	11/30/2015 16:55	11/30/2015	16:55	27	23.5	75	7.5	14.3		892.8	102.14	2611.4
	11/30/2015 16:59	11/30/2015	16:59		19					57.2	6.55	2618.0

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-151 Event 6	12/8/2015 8:01	12/8/2015	8:01	25	22	60	0	0.0				2618.0	
	12/8/2015 8:28	12/8/2015	8:28	25	22	60	0	0.0	0.0	0.00		2618.0	
	12/8/2015 9:31	12/8/2015	9:31	24	22	76	0	0.0	0.0	0.00		2618.0	
	12/8/2015 10:24	12/8/2015	10:24	24	22	78	0	0.0	0.0	0.00		2618.0	
	12/8/2015 10:27	12/8/2015	10:27	26	26	78	6	11.3	16.9	1.93		2619.9	
	12/8/2015 11:48	12/8/2015	11:48	25	25	80	6	11.1	906.7	103.72		2723.6	
	12/8/2015 11:49	12/8/2015	11:49	27	27	80	10	19.0	15.0	1.72		2725.3	
	12/8/2015 13:09	12/8/2015	13:09	27	27	82	10	19.0	1517.5	173.61		2899.0	
	12/8/2015 15:14	12/8/2015	15:14	27	27	78	10	19.0	2373.4	271.52		3170.5	
	12/8/2015 17:02	12/8/2015	17:02	27	27	70	10	19.2	2062.5	235.95		3406.4	
	12/8/2015 17:03	12/8/2015	17:03		19				19.2	2.19		3408.6	
	SW-151 Event 7	12/16/2015 7:34	12/16/2015	7:34	26	26	67	0	0.0				3408.6
12/16/2015 8:08		12/16/2015	8:08	24	23.5	68	6	11.1	188.7	21.58		3430.2	
12/16/2015 8:13		12/16/2015	8:13	27	26.5	68	8	15.4	66.2	7.57		3437.8	
12/16/2015 9:18		12/16/2015	9:18	27	26	72	10	19.1	1121.3	128.27		3566.0	
12/16/2015 10:56		12/16/2015	10:56	27	26	74	12	22.9	2060.4	235.72		3801.8	
12/16/2015 12:25		12/16/2015	12:25	26.5	26	76	13	24.6	2115.7	242.03		4043.8	
12/16/2015 14:32		12/16/2015	14:32	26.5	25	74	12.5	23.7	3070.4	351.25		4395.0	
12/16/2015 15:55		12/16/2015	15:55	26.5	24.5	73	13.5	25.6	2049.0	234.41		4629.4	
12/16/2015 16:58		12/16/2015	16:58	26.5	24.5	73	13.5	25.6	1615.8	184.85		4814.3	
12/16/2015 17:05		12/16/2015	17:05		18				179.5	20.54		4834.8	
SW-151 Event 8		12/19/2015 10:35	12/19/2015	10:35	24	24	67	0	0.0				4834.8
		12/19/2015 11:22	12/19/2015	11:22	22.5	23.5	67	<2	0.0	0.0	0.00		4834.8
	12/19/2015 11:23	12/19/2015	11:23	26	25	68	6	11.4	5.7	0.65		4835.5	
	12/19/2015 12:47	12/19/2015	12:47	26.5	25.5	71	6.5	12.4	997.8	114.15		4949.6	
	12/19/2015 13:39	12/19/2015	13:39	26.5	25.5	72	7	13.3	667.8	76.40		5026.0	
	12/19/2015 14:57	12/19/2015	14:57	26	25	71	8	15.1	1109.4	126.92		5153.0	
	12/19/2015 15:42	12/19/2015	15:42	26	25	70	8	15.1	681.4	77.95		5230.9	
	12/19/2015 17:00	12/19/2015	17:00	25.5	24	67	9.5	17.9	1290.1	147.59		5378.5	
	12/19/2015 17:01	12/19/2015	17:01		19				17.9	2.05		5380.5	
SW-151 Event 9	12/22/2015 7:30	12/22/2015	7:30	25	25	72	0	0.0				5380.5	
	12/22/2015 8:02	12/22/2015	8:02	25.5	25	72	4	7.5	120.2	13.75		5394.3	
	12/22/2015 10:29	12/22/2015	10:29	25	24.5	76	6	11.2	1372.1	156.97		5551.3	
	12/22/2015 10:55	12/22/2015	10:55	25	24.5	76	6	11.2	290.0	33.18		5584.4	
	12/22/2015 10:56	12/22/2015	10:56		19				11.2	1.28		5585.7	
SW-151 Event 10	1/5/2016 7:28	1/5/2016	7:28	22.5	23	47	0	0.0				5585.7	
	1/5/2016 7:53	1/5/2016	7:53	21.5	21.5	49	0	0.0	0.0	0.00		5585.7	
	1/5/2016 7:54	1/5/2016	7:54	25	25.5	49	4	7.6	3.8	0.44		5586.2	
	1/5/2016 9:28	1/5/2016	9:28	25	25	56	5.5	10.4	849.0	97.13		5683.3	
	1/5/2016 11:16	1/5/2016	11:16	25	25	62	6.5	12.3	1224.6	140.09		5823.4	
	1/5/2016 12:48	1/5/2016	12:48	26	24.5	63	7.5	14.3	1221.3	139.72		5963.1	
	1/5/2016 14:07	1/5/2016	14:07	26	24	60	8	15.3	1169.1	133.75		6096.8	
	1/5/2016 15:34	1/5/2016	15:34	26	23.5	58	8	15.3	1332.3	152.42		6249.3	
	1/5/2016 17:09	1/5/2016	17:09	26	23.5	57	9	17.3	1548.1	177.10		6426.4	
	1/5/2016 17:11	1/5/2016	17:11		19.5				34.5	3.95		6430.3	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-151 Event 11	1/8/2016 7:57	1/8/2016	7:57	26.5	26.5	61	0	0.0				6430.3	
	1/8/2016 8:20	1/8/2016	8:20	26	25	62	4	7.6		87.8	10.04	6440.4	
	1/8/2016 10:02	1/8/2016	10:02	25.5	25	65	5.5	10.4		919.8	105.22	6545.6	
	1/8/2016 11:14	1/8/2016	11:14	25.5	25	67	6	11.3		782.1	89.47	6635.1	
	1/8/2016 13:42	1/8/2016	13:42	25	25	69	7	13.1		1807.6	206.78	6841.8	
	1/8/2016 14:54	1/8/2016	14:54	24.5	24	69	7.5	13.9		973.8	111.41	6953.2	
	1/8/2016 16:10	1/8/2016	16:10	24.5	24	68	8	14.9		1096.0	125.38	7078.6	
	1/8/2016 17:04	1/8/2016	17:04	25.5	23.5	66	8	15.1		810.2	92.68	7171.3	
	1/8/2016 17:05	1/8/2016	17:05		19					15.1	1.73	7173.0	
SW-151 Event 12	1/12/2016 7:32	1/12/2016	7:32	23	23	40	0	0.0				7173.0	
	1/12/2016 8:00	1/12/2016	8:00	22	22	44	3	5.5		77.4	8.86	7181.9	
	1/12/2016 8:05	1/12/2016	8:05	25	25	44	6	11.5		42.6	4.88	7186.8	
	1/12/2016 10:12	1/12/2016	10:12	24.5	24.5	67	8	14.9		1677.8	191.94	7378.7	
	1/12/2016 11:32	1/12/2016	11:32	24.5	24.5	69	8	14.9		1191.4	136.30	7515.0	
	1/12/2016 12:44	1/12/2016	12:44	24.5	24.5	70	8.5	15.8		1104.2	126.32	7641.3	
	1/12/2016 14:24	1/12/2016	14:24	24.5	24	70	9	16.7		1625.7	185.98	7827.3	
	1/12/2016 16:01	1/12/2016	16:01	24.5	24	69	9	16.7		1622.8	185.65	8013.0	
	1/12/2016 16:59	1/12/2016	16:59	24	24	66	9.5	17.6		995.9	113.94	8126.9	
		1/12/2016 17:00	1/12/2016	17:00		18					17.6	2.01	8128.9
SW-151 Event 13	1/15/2016 7:04	1/15/2016	7:04	23.5	23	67	0	0.0				8128.9	
	1/15/2016 7:30	1/15/2016	7:30	23	22.5	67	<2	0.0		0.0	0.00	8128.9	
	1/15/2016 7:31	1/15/2016	7:31	26	24	67	<2	0.0		0.0	0.00	8128.9	
	1/15/2016 8:42	1/15/2016	8:42	22	22	67	<2	0.0		0.0	0.00	8128.9	
	1/15/2016 8:44	1/15/2016	8:44	26	26	67	6	11.4		11.4	1.30	8130.2	
	1/15/2016 10:24	1/15/2016	10:24	26	25.5	67	8	15.2		1329.4	152.09	8282.3	
	1/15/2016 11:11	1/15/2016	11:11	26	25.5	67	8	15.2		714.1	81.69	8364.0	
		1/15/2016 11:13	1/15/2016	11:13		19					30.4	3.48	8367.5
SW-151 Event 14	1/18/2016 8:26	1/18/2016	8:26	22.5	23	53	0	0.0				8367.5	
	1/18/2016 9:07	1/18/2016	9:07	22	22	58	0	0.0		0.0	0.00	8367.5	
	1/18/2016 9:08	1/18/2016	9:08	26	26	58	7	13.4		6.7	0.77	8368.2	
	1/18/2016 10:11	1/18/2016	10:11	26	25.5	62	7	13.4		843.3	96.48	8464.7	
	1/18/2016 12:04	1/18/2016	12:04	26	25.5	66	8	15.2		1614.1	184.65	8649.4	
	1/18/2016 13:52	1/18/2016	13:52	25.5	25	66	9	17.0		1739.4	198.99	8848.4	
	1/18/2016 15:31	1/18/2016	15:31	25.5	25	68	10	18.9		1775.0	203.06	9051.4	
	1/18/2016 16:58	1/18/2016	16:58	25.5	24.5	64	11	20.8		1725.9	197.45	9248.9	
		1/18/2016 16:59	1/18/2016	16:59		19					20.8	2.38	9251.2
	SW-151 Event 15	1/26/2016 8:49	1/26/2016	8:49	25	25	60	0	0.0				9251.2
1/26/2016 9:51		1/26/2016	9:51	24.5	25	64	5	9.3		289.7	33.14	9284.4	
1/26/2016 9:52		1/26/2016	9:52	26.5	26	64	7.5	14.4		11.9	1.36	9285.7	
1/26/2016 12:10		1/26/2016	12:10	26.5	26	72	8.5	16.2		2107.2	241.06	9526.8	
1/26/2016 14:15		1/26/2016	14:15	26.5	25.5	72	10	19.0		2198.9	251.55	9778.4	
1/26/2016 15:51		1/26/2016	15:51	26.5	25	70	10	19.1		1827.4	209.06	9987.4	
1/26/2016 17:13		1/26/2016	17:13	26	24.5	65	10.5	20.0		1600.4	183.09	10170.5	
		1/26/2016 17:15	1/26/2016	17:15		19					40.0	4.57	10175.1
SW-151 Event 16	1/28/2016 7:25	1/28/2016	7:25	25	25	62	0	0.0				10175.1	
	1/28/2016 7:49	1/28/2016	7:49	25	23.5	62	3	5.7		67.8	7.76	10182.8	
	1/28/2016 7:50	1/28/2016	7:50	26	25	62	4	7.6		6.6	0.76	10183.6	
	1/28/2016 9:48	1/28/2016	9:48	25	25	63	6	11.3		1116.9	127.78	10311.4	
	1/28/2016 11:50	1/28/2016	11:50	24.5	24	64	7.5	14.0		1544.1	176.65	10488.0	
		1/28/2016 14:14	1/28/2016	14:14	24	24	66	8	14.8		2076.6	237.57	10725.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/28/2016 15:22	1/28/2016	15:22	24	24	64	8	14.9		1009.1	115.44	10841.0
	1/28/2016 17:00	1/28/2016	17:00	24	23	61	9	16.8		1549.1	177.22	11018.2
	1/28/2016 17:01	1/28/2016	17:01		19					16.8	1.92	11020.2
<u>SW-151 Event 17</u>	2/2/2016 8:18	2/2/2016	8:18	23.5	23	66	0	0.0				11020.2
	2/2/2016 8:42	2/2/2016	8:42	23	23	66	3	5.5		65.8	7.53	11027.7
	2/2/2016 8:43	2/2/2016	8:43	26.5	26	66	5.5	10.5		8.0	0.92	11028.6
	2/2/2016 10:07	2/2/2016	10:07	26	25.5	74	8	15.1		1075.7	123.06	11151.7
	2/2/2016 12:13	2/2/2016	12:13	26	25	76	9.5	17.9		2077.5	237.67	11389.3
	2/2/2016 14:07	2/2/2016	14:07	26	24.5	75	10	18.8		2093.7	239.52	11628.9
	2/2/2016 15:34	2/2/2016	15:34	25.5	24	77	10.5	19.6		1673.5	191.45	11820.3
	2/2/2016 17:02	2/2/2016	17:02	25	23.5	74	11	20.5		1765.1	201.93	12022.2
	2/2/2016 17:03	2/2/2016	17:03		19					20.5	2.34	12024.6
<u>SW-151 Event 18</u>	2/4/2016 7:35	2/4/2016	7:35	25	24	70	0	0.0				12024.6
	2/4/2016 7:52	2/4/2016	7:52	24	23	70	3.5	6.5		54.9	6.28	12030.9
	2/4/2016 11:19	2/4/2016	11:19	24	22.5	65	6	11.1		1820.6	208.28	12239.1
	2/4/2016 11:22	2/4/2016	11:22		18					33.4	3.82	12243.0
Total CO ₂ Mass (lbs):											12243.0	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-152 Event 1	10/26/2015 8:18	10/26/2015	8:18	13	15	74	0	0.0				0
	10/26/2015 8:31	10/26/2015	8:31	16	16	74	0	0.0		0.0	0.00	0.0
	10/26/2015 8:40	10/26/2015	8:40	18	18	74	0	0.0		0.0	0.00	0.0
	10/26/2015 8:46	10/26/2015	8:46	22	24	74	0	0.0		0.0	0.00	0.0
	10/26/2015 8:52	10/26/2015	8:52	25	24	74	6	0.0		0.0	0.00	0.0
	10/26/2015 9:07	10/26/2015	9:07	24		74		0.0		0.0	0.00	0.0
	10/26/2015 10:07	10/26/2015	10:07		14			0.0		0.0	0.00	0.0
	10/26/2015 11:57	10/26/2015	11:57	14	14	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:00	10/26/2015	12:00	15	14	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:04	10/26/2015	12:04	16	15	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:05	10/26/2015	12:05	17	17	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:07	10/26/2015	12:07	18	18	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:11	10/26/2015	12:11	19	19	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:14	10/26/2015	12:14	20	20	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:18	10/26/2015	12:18	21	21	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:20	10/26/2015	12:20	22	21.5	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:24	10/26/2015	12:24	23	23	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:27	10/26/2015	12:27	24	23.5	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:30	10/26/2015	12:30	25	24.5	82	0	0.0		0.0	0.00	0.0
	10/26/2015 12:34	10/26/2015	12:34	25	24	82	4	7.4		14.8	1.69	1.7
10/26/2015 12:48	10/26/2015	12:48	25	24	82	5	9.2		116.5	13.32	15.0	
10/26/2015 13:00	10/26/2015	13:00	25	24	82	5.5	10.2		116.5	13.32	28.3	
10/26/2015 14:09	10/26/2015	14:09	25	23	80	7	13.0		798.0	91.30	119.6	
10/26/2015 15:50	10/26/2015	15:50	24.5	23	79	8	14.7		1398.9	160.03	279.7	
10/26/2015 16:59	10/26/2015	16:59	24.5	23	78	8	14.7		1017.3	116.38	396.0	
10/26/2015 17:00	10/26/2015	17:00		19					14.7	1.69	397.7	
SW-152 Event 2	11/18/2015 8:05	11/18/2015	8:05	26	25	76	0	0.0				397.7
	11/18/2015 9:04	11/18/2015	9:04	26	22	78	13.5	25.4		748.4	85.61	483.3
	11/18/2015 9:05	11/18/2015	9:05	30	24	78	20	39.4		32.4	3.71	487.0
	11/18/2015 9:11	11/18/2015	9:11	30	24	78	20	39.4		236.5	27.05	514.1
	11/18/2015 9:13	11/18/2015	9:13	26	22.5	78	13.5	25.4		64.8	7.41	521.5
	11/18/2015 10:39	11/18/2015	10:39	26	21	78	15	28.2		2302.9	263.45	785.0
	11/18/2015 11:49	11/18/2015	11:49	26	21.5	80	15	28.1		1971.2	225.51	1010.5
	11/18/2015 13:01	11/18/2015	13:01	26	23	78	13	24.4		1892.2	216.47	1226.9
	11/18/2015 14:53	11/18/2015	14:53	26	23	76	13.5	25.4		2791.3	319.33	1546.3
	11/18/2015 16:44	11/18/2015	16:44	26	22	76	14	26.4		2873.5	328.73	1875.0
	11/18/2015 16:45	11/18/2015	16:45		18					26.4	3.02	1878.0
SW-152 Event 3	11/23/2015 7:55	11/23/2015	7:55	24	23	53	3	5.6				1878.0
	11/23/2015 8:16	11/23/2015	8:16	24	22.5	54	4	7.5		137.9	15.77	1893.8
	11/23/2015 8:18	11/23/2015	8:18	27	24	54	10	19.5		27.0	3.09	1896.9
	11/23/2015 9:30	11/23/2015	9:30	27	23	65	14	27.0		1672.1	191.29	2088.2
	11/23/2015 11:42	11/23/2015	11:42	27	23	72	14	26.8		3548.0	405.89	2494.0
	11/23/2015 14:09	11/23/2015	14:09	27	22.5	72	15	28.7		4078.4	466.56	2960.6
	11/23/2015 15:43	11/23/2015	15:43	27	22.5	71	15	28.7		2699.2	308.78	3269.4
	11/23/2015 17:01	11/23/2015	17:01	27	22.5	68	15.5	29.8		2281.6	261.01	3530.4
	11/23/2015 17:07	11/23/2015	17:07		17					178.6	20.44	3550.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-152 Event 4	12/4/2015 7:42	12/4/2015	7:42	22.5	22	58	3	5.5				3550.8
	12/4/2015 8:02	12/4/2015	8:02	22.5	19.5	60	4.5	8.2	137.1	15.69	3566.5	
	12/4/2015 8:05	12/4/2015	8:05	24	22	60	7	13.0	31.9	3.65	3570.2	
	12/4/2015 9:18	12/4/2015	9:18	24	22	67	8	14.8	1016.9	116.33	3686.5	
	12/4/2015 10:42	12/4/2015	10:42	24	22	70	7.5	13.8	1203.5	137.68	3824.2	
	12/4/2015 12:04	12/4/2015	12:04	24.5	22	70	7	13.0	1100.9	125.94	3950.1	
	12/4/2015 12:05	12/4/2015	12:05		19				13.0	1.49	3951.6	
SW-152 Event 5	12/7/2015 7:50	12/7/2015	7:50	22	20	62	0	0.0				3951.6
	12/7/2015 8:24	12/7/2015	8:24	21.5	18	62	0	0.0	0.0	0.00	3951.6	
	12/7/2015 8:25	12/7/2015	8:25	25	23	62	3	5.7	2.8	0.32	3951.9	
	12/7/2015 9:50	12/7/2015	9:50	25	23	68	4	7.5	558.8	63.93	4015.9	
	12/7/2015 10:52	12/7/2015	10:52	25	23	73	4	7.5	463.5	53.03	4068.9	
	12/7/2015 10:54	12/7/2015	10:54	27	25	73	7	13.4	20.8	2.38	4071.3	
	12/7/2015 12:40	12/7/2015	12:40	27	25	76	5.5	10.5	1264.8	144.69	4216.0	
	12/7/2015 14:27	12/7/2015	14:27	27	25	77	6	11.4	1172.1	134.09	4350.1	
	12/7/2015 16:07	12/7/2015	16:07	27	24.5	74	6	11.5	1144.2	130.89	4481.0	
	12/7/2015 16:59	12/7/2015	16:59	27	24.5	72	6	11.5	596.4	68.23	4549.2	
	12/7/2015 17:00	12/7/2015	17:00		19				11.5	1.31	4550.5	
SW-152 Event 6	12/11/2015 7:53	12/11/2015	7:53	36	35	52	10	21.6				4550.5
	12/11/2015 8:13	12/11/2015	8:13	35	34	66	12	25.2	468.0	53.54	4604.0	
	12/11/2015 9:23	12/11/2015	9:23	30	30	78	10	19.7	1573.3	179.99	4784.0	
	12/11/2015 11:03	12/11/2015	11:03	30	30	78	10	19.7	1970.5	225.43	5009.5	
	12/11/2015 11:04	12/11/2015	11:04		18				19.7	2.25	5011.7	
SW-152 Event 7	12/14/2015 7:45	12/14/2015	7:45	26	24	73	0	0.0				5011.7
	12/14/2015 8:11	12/14/2015	8:11	25.5	23	73	0	0.0	0.0	0.00	5011.7	
	12/14/2015 8:14	12/14/2015	8:14	29	26	73	6	11.7	17.6	2.02	5013.7	
	12/14/2015 10:06	12/14/2015	10:06	29.5	25.5	75	7	13.8	1428.0	163.36	5177.1	
	12/14/2015 11:52	12/14/2015	11:52	29.5	25	77	8.5	16.7	1612.5	184.47	5361.6	
	12/14/2015 13:33	12/14/2015	13:33	29.5	25	77	9	17.7	1733.2	198.28	5559.8	
	12/14/2015 14:56	12/14/2015	14:56	29.5	24.5	77	9.5	18.6	1505.7	172.25	5732.1	
	12/14/2015 15:54	12/14/2015	15:54	29.5	24.5	77	10	19.6	1109.1	126.88	5859.0	
	12/14/2015 16:57	12/14/2015	16:57	29.5	24.5	76	10	19.6	1236.1	141.41	6000.4	
	12/14/2015 17:00	12/14/2015	17:00		19				58.9	6.74	6007.1	
SW-152 Event 8	1/25/2016 8:06	1/25/2016	8:06	25	25	46	0	0.0				6007.1
	1/25/2016 8:26	1/25/2016	8:26	25	25	51	0	0.0	0.0	0.00	6007.1	
	1/25/2016 8:27	1/25/2016	8:27	33	30.5	51	3	6.3	3.1	0.36	6007.5	
	1/25/2016 9:18	1/25/2016	9:18	33	29	54	4.5	9.4	399.3	45.68	6053.2	
	1/25/2016 10:54	1/25/2016	10:54	33.5	27	73	7.5	15.4	1191.0	136.25	6189.4	
	1/25/2016 12:12	1/25/2016	12:12	33.5	26.5	75	8.5	17.5	1282.4	146.71	6336.1	
	1/25/2016 13:57	1/25/2016	13:57	33	26.5	75	9	18.4	1881.3	215.22	6551.3	
	1/25/2016 16:02	1/25/2016	16:02	33	26	70	10	20.5	2431.6	278.17	6829.5	
	1/25/2016 16:59	1/25/2016	16:59	33.5	26	64	10.5	21.8	1206.0	137.97	6967.5	
	1/25/2016 17:00	1/25/2016	17:00		21.5				21.8	2.49	6970.0	
SW-152 Event 9	1/29/2016 7:19	1/29/2016	7:19	26	26	50	0	0.0				6970.0
	1/29/2016 7:45	1/29/2016	7:45	26	24.5	50	<2	0.0	0.0	0.00	6970.0	
	1/29/2016 7:46	1/29/2016	7:46	30	27.5	50	6	12.2	6.1	0.70	6970.7	
	1/29/2016 9:37	1/29/2016	9:37	31	27	65	8	16.1	1570.6	179.68	7150.3	
	1/29/2016 10:35	1/29/2016	10:35	31	27	68	9	18.1	993.4	113.64	7264.0	
	1/29/2016 11:42	1/29/2016	11:42	31	26.5	70	10	20.1	1279.4	146.37	7410.3	
	1/29/2016 11:43	1/29/2016	11:43		20				20.1	2.30	7412.6	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-152 Event 10	2/1/2016 7:47	2/1/2016	7:47	27.5	27.5	55	0	0.0			7412.6
	2/1/2016 8:17	2/1/2016	8:17	27	25.5	60	3	5.8	87.1	9.97	7422.6
	2/1/2016 8:18	2/1/2016	8:18	31	29.5	60	7	14.2	10.0	1.14	7423.8
	2/1/2016 9:27	2/1/2016	9:27	33	29.5	70	7.5	15.4	1020.8	116.79	7540.5
	2/1/2016 11:09	2/1/2016	11:09	33	29	76	9	18.4	1721.6	196.95	7737.5
	2/1/2016 12:29	2/1/2016	12:29	32.5	28	77	10	20.3	1545.6	176.82	7914.3
	2/1/2016 13:57	2/1/2016	13:57	32.5	27.5	77	11	22.3	1873.5	214.33	8128.6
	2/1/2016 15:33	2/1/2016	15:33	32.5	27	76	11.5	23.3	2190.9	250.64	8379.3
	2/1/2016 16:52	2/1/2016	16:52	32	26.5	72	12	24.3	1882.5	215.35	8594.6
2/1/2016 16:53	2/1/2016	16:53		22				24.3	2.78	8597.4	
SW-152 Event 11	2/9/2016 7:33	2/9/2016	7:33	30	29	50	0	0.0			8597.4
	2/9/2016 7:54	2/9/2016	7:54	30	27.5	50	4	8.1	85.1	9.73	8607.1
	2/9/2016 7:55	2/9/2016	7:55	36	33	50	10	21.6	14.9	1.70	8608.8
	2/9/2016 9:15	2/9/2016	9:15	36	32	60	12	25.7	1890.2	216.24	8825.1
	2/9/2016 11:35	2/9/2016	11:35	35	31	63	14.5	30.6	3937.8	450.49	9275.6
	2/9/2016 12:03	2/9/2016	12:03	35	31	63	14.5	30.6	856.7	98.01	9373.6
	2/9/2016 12:04	2/9/2016	12:04		23				30.6	3.50	9377.1
SW-152 Event 12	2/11/2016 7:18	2/11/2016	7:18	29	29	42	0	0.0			9377.1
	2/11/2016 7:42	2/11/2016	7:42	29	27.5	43	3	6.1	72.6	8.31	9385.4
	2/11/2016 7:43	2/11/2016	7:43	34	33	43	9	19.2	12.6	1.44	9386.8
	2/11/2016 9:02	2/11/2016	9:02	35	32.5	61	10.5	22.2	1634.6	187.00	9573.8
	2/11/2016 12:18	2/11/2016	12:18	34	30	72	14	29.0	5015.8	573.81	10147.6
	2/11/2016 12:20	2/11/2016	12:20		24				58.0	6.63	10154.3
SW-152 Event 13	2/12/2016 7:14	2/12/2016	7:14	29.5	29.5	63	0	0.0			10154.3
	2/12/2016 7:37	2/12/2016	7:37	28.5	27	63	5	9.8	113.0	12.93	10167.2
	2/12/2016 7:39	2/12/2016	7:39	34	32	63	10.5	21.9	31.8	3.63	10170.8
	2/12/2016 8:42	2/12/2016	8:42	33.5	31	64	12	24.9	1475.3	168.78	10339.6
	2/12/2016 9:58	2/12/2016	9:58	33	30	70	13.5	27.7	1999.3	228.72	10568.3
	2/12/2016 11:03	2/12/2016	11:03	33	30	74	14	28.6	1830.7	209.43	10777.8
	2/12/2016 12:00	2/12/2016	12:00	33	29	77	14.5	29.6	1658.1	189.69	10967.4
	2/12/2016 12:01	2/12/2016	12:01		24				29.6	3.38	10970.8
SW-152 Event 14	2/15/2016 8:01	2/15/2016	8:01	31	30	53	0	0.0			10970.8
	2/15/2016 8:47	2/15/2016	8:47	29.5	28	56	5.5	11.0	253.3	28.97	10999.8
	2/15/2016 8:49	2/15/2016	8:49	34	32	56	11	23.1	34.1	3.91	11003.7
	2/15/2016 10:20	2/15/2016	10:20	34	32	64	11	23.0	2096.9	239.88	11243.6
	2/15/2016 11:29	2/15/2016	11:29	34	31	65	12	25.0	1654.7	189.30	11432.9
	2/15/2016 12:38	2/15/2016	12:38	33.5	30.5	70	13	26.8	1788.3	204.58	11637.5
2/15/2016 12:47	2/15/2016	12:47		24				241.4	27.62	11665.1	
SW-152 Event 15	2/17/2016 7:24	2/17/2016	7:24	27.5	27	55	0	0.0			11665.1
	2/17/2016 10:29	2/17/2016	10:29	26	25	73	4.5	8.5	786.0	89.91	11755.0
	2/17/2016 10:30	2/17/2016	10:30	28.5	27.5	73	8	15.6	12.0	1.38	11756.4
	2/17/2016 12:58	2/17/2016	12:58	29	27	77	9	17.5	2450.7	280.36	12036.7
	2/17/2016 14:08	2/17/2016	14:08	28.5	26.5	78	10	19.4	1292.1	147.81	12184.5
	2/17/2016 14:09	2/17/2016	14:09		22.5				19.4	2.22	12186.8
Total CO ₂ Mass (lbs):											12186.8

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-153 Event 1	10/23/2015 9:19	10/23/2015	9:19	12	13	77	0	0.0				0
	10/23/2015 9:28	10/23/2015	9:28	18	18	77	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 9:46	10/23/2015	9:46	24	26	79	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 10:35	10/23/2015	10:35	24	24	78	3	5.5	134.6	15.40	15.4	15.4
	10/23/2015 10:38	10/23/2015	10:38	28	28	78	6.5	12.5	27.0	3.09	18.5	18.5
	10/23/2015 10:44	10/23/2015	10:44	30	30	78	8	15.8	84.8	9.71	28.2	28.2
	10/23/2015 10:49	10/23/2015	10:49	32	32	78	10	20.1	89.8	10.27	38.5	38.5
	10/23/2015 11:32	10/23/2015	11:32	32	31	79	10.5	21.1	887.6	101.54	140.0	140.0
	10/23/2015 11:34	10/23/2015	11:34	33	32	79	11	22.4	43.5	4.98	145.0	145.0
	10/23/2015 12:02	10/23/2015	12:02	33	31	80	11	22.4	626.3	71.65	216.6	216.6
	10/23/2015 12:40	10/23/2015	12:40	33	31	80	11.5	23.4	868.9	99.41	316.0	316.0
	10/23/2015 12:57	10/23/2015	12:57	33	31	80	12	24.4	406.0	46.45	362.5	362.5
10/23/2015 12:59	10/23/2015	12:59		22				48.8	5.58	368.1	368.1	
SW-153 Event 2	11/16/2015 7:55	11/16/2015	7:55	27.5	27	64	0	0.0				368.1
	11/16/2015 8:26	11/16/2015	8:26	27	25.5	70	4	7.7	118.9	13.60	381.7	381.7
	11/16/2015 8:30	11/16/2015	8:30	34	32	70	8	16.6	48.5	5.55	387.2	387.2
	11/16/2015 9:55	11/16/2015	9:55	34	30	77	8	16.5	1405.6	160.80	548.0	548.0
	11/16/2015 9:56	11/16/2015	9:56	37	32.5	77	10	21.2	18.9	2.16	550.2	550.2
	11/16/2015 10:49	11/16/2015	10:49	37	32.5	79	10	21.2	1124.4	128.63	678.8	678.8
	11/16/2015 12:09	11/16/2015	12:09	37	32	80	11	23.3	1779.4	203.56	882.4	882.4
	11/16/2015 14:29	11/16/2015	14:29	37	30	79	12	25.4	3410.7	390.18	1272.6	1272.6
	11/16/2015 14:32	11/16/2015	14:32	40	32	79	13	28.4	80.7	9.23	1281.8	1281.8
	11/16/2015 17:18	11/16/2015	17:18	40	31	70	15	33.0	5092.7	582.61	1864.4	1864.4
11/16/2015 17:19	11/16/2015	17:19		21				33.0	3.78	1868.2	1868.2	
SW-153 Event 3	11/20/2015 7:53	11/20/2015	7:53	27	26	64	<2	0.0				1868.2
	11/20/2015 8:16	11/20/2015	8:16	26	24	67	4	7.6	87.4	9.99	1878.2	1878.2
	11/20/2015 8:18	11/20/2015	8:18	32	28	67	7	14.3	21.9	2.50	1880.7	1880.7
	11/20/2015 9:34	11/20/2015	9:34	32	28	73	8	16.2	1157.1	132.38	2013.0	2013.0
	11/20/2015 11:13	11/20/2015	11:13	32	27.5	77	8	16.1	1600.3	183.07	2196.1	2196.1
	11/20/2015 11:15	11/20/2015	11:15	36	30	77	11	23.1	39.3	4.49	2200.6	2200.6
	11/20/2015 13:06	11/20/2015	13:06	36	30	77	12	25.2	2683.9	307.04	2507.6	2507.6
	11/20/2015 15:05	11/20/2015	15:05	35.5	29.5	77	12	25.1	2994.9	342.62	2850.3	2850.3
	11/20/2015 17:13	11/20/2015	17:13	36	29	70	13	27.5	3368.0	385.29	3235.6	3235.6
	11/20/2015 17:14	11/20/2015	17:14		23				27.5	3.15	3238.7	3238.7
SW-153 Event 4	12/3/2015 7:45	12/3/2015	7:45	26	25	58	0	0.0				3238.7
	12/3/2015 8:10	12/3/2015	8:10	25	24	61	<2	0.0	0.0	0.00	3238.7	3238.7
	12/3/2015 8:11	12/3/2015	8:11	30	27.5	61	6	12.0	6.0	0.69	3239.4	3239.4
	12/3/2015 10:27	12/3/2015	10:27	29.5	26	66	8	15.9	1895.8	216.88	3456.3	3456.3
	12/3/2015 10:28	12/3/2015	10:28	33	29.5	66	10	20.6	18.2	2.09	3458.4	3458.4
	12/3/2015 11:47	12/3/2015	11:47	33	28	70	11	22.6	1705.6	195.12	3653.5	3653.5
	12/3/2015 13:55	12/3/2015	13:55	32.5	27	73	11.5	23.4	2943.0	336.68	3990.2	3990.2
	12/3/2015 15:28	12/3/2015	15:28	33	27	72	12	24.6	2231.4	255.28	4245.4	4245.4
	12/3/2015 17:05	12/3/2015	17:05	32.5	26.5	67	12.5	25.6	2433.4	278.38	4523.8	4523.8
	12/3/2015 17:07	12/3/2015	17:07		20.5				51.2	5.86	4529.7	4529.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-153 Event 5	12/11/2015 7:33	12/11/2015	7:33	27	27	55	0	0.0				4529.7	
	12/11/2015 7:58	12/11/2015	7:58	27	25.5	60	3	5.8		72.6	8.31	4538.0	
	12/11/2015 8:02	12/11/2015	8:02	33.5	30.5	60	10	20.8		53.3	6.10	4544.1	
	12/11/2015 9:07	12/11/2015	9:07	32.5	29	70	10	20.4		1340.7	153.38	4697.4	
	12/11/2015 10:07	12/11/2015	10:07	32	28	76	10	20.2		1218.0	139.34	4836.8	
	12/11/2015 10:55	12/11/2015	10:55	33.5	28	79	10	20.5		975.3	111.58	4948.4	
	12/11/2015 10:56	12/11/2015	10:56		23.5					20.5	2.34	4950.7	
SW-153 Event 6	1/8/2016 8:01	1/8/2016	8:01	28	28	61	0	0.0				4950.7	
	1/8/2016 8:26	1/8/2016	8:26	28	26.5	60	3.5	6.9		85.7	9.81	4960.5	
	1/8/2016 8:27	1/8/2016	8:27	32	29	60	7.5	15.4		11.1	1.27	4961.8	
	1/8/2016 9:56	1/8/2016	9:56	32	28	62	7.5	15.3		1367.4	156.43	5118.2	
	1/8/2016 11:19	1/8/2016	11:19	32	28	65	8.5	17.3		1356.7	155.21	5273.4	
	1/8/2016 13:33	1/8/2016	13:33	31.5	27	67	9.5	19.2		2451.1	280.41	5553.8	
	1/8/2016 14:51	1/8/2016	14:51	31.5	26.5	67	10	20.3		1540.2	176.20	5730.0	
	1/8/2016 16:05	1/8/2016	16:05	31.5	26.5	66	10	20.3		1499.5	171.54	5901.6	
	1/8/2016 17:09	1/8/2016	17:09	31.5	26	64	10.5	21.3		1331.3	152.30	6053.9	
	1/8/2016 17:11	1/8/2016	17:11		23					42.7	4.88	6058.7	
	SW-153 Event 7	2/3/2016 7:28	2/3/2016	7:28	30	29.5	70	4	7.9				6058.7
2/3/2016 7:47		2/3/2016	7:47	30	27.5	70	8	15.9		226.4	25.90	6084.6	
2/3/2016 7:49		2/3/2016	7:49	36	31.5	70	10.5	22.2		38.1	4.36	6089.0	
2/3/2016 9:25		2/3/2016	9:25	36	30.5	70	12	25.4		2286.3	261.55	6350.6	
2/3/2016 11:02		2/3/2016	11:02	36	29	75	12	25.3		2458.1	281.21	6631.8	
2/3/2016 12:24		2/3/2016	12:24	36	28	73	13.5	28.5		2204.8	252.22	6884.0	
2/3/2016 14:15		2/3/2016	14:15	36	27.5	75	14.5	30.5		3276.8	374.87	7258.9	
2/3/2016 15:15		2/3/2016	15:15	36	27.5	76	15	31.6		1863.5	213.18	7472.0	
2/3/2016 16:11		2/3/2016	16:11	36	27	73	15.5	32.7		1800.0	205.92	7678.0	
2/3/2016 16:13		2/3/2016	16:13		21.5					65.4	7.49	7685.4	
SW-153 Event 8		2/8/2016 7:33	2/8/2016	7:33	30	30	44	3	6.1				7685.4
		2/8/2016 8:10	2/8/2016	8:10	29	26	54	7.5	15.0		389.9	44.60	7730.0
		2/8/2016 8:11	2/8/2016	8:11	37	32.5	54	10	21.7		18.3	2.10	7732.1
	2/8/2016 9:21	2/8/2016	9:21	38	31	60	14	30.5		1828.9	209.22	7941.4	
	2/8/2016 10:55	2/8/2016	10:55	37.5	29.5	64	15.5	33.5		3009.4	344.27	8285.6	
	2/8/2016 12:04	2/8/2016	12:04	37.5	29	65	16	34.5		2347.7	268.57	8554.2	
	2/8/2016 13:07	2/8/2016	13:07	37.5	28.5	66	16	34.5		2175.4	248.87	8803.1	
	2/8/2016 14:22	2/8/2016	14:22	37.5	28	66	16	34.5		2588.5	296.12	9099.2	
	2/8/2016 15:46	2/8/2016	15:46	37.5	28	66	16	34.5		2899.1	331.66	9430.9	
	2/8/2016 17:07	2/8/2016	17:07	37	27.5	63	16.5	35.5		2836.5	324.49	9755.4	
	2/8/2016 17:08	2/8/2016	17:08		21.5					35.5	4.06	9759.4	
	SW-153 Event 9	2/9/2016 7:27	2/9/2016	7:27	29	28	39	4	8.1				9759.4
2/9/2016 7:40		2/9/2016	7:40	29	25.5	44	7	14.1		144.3	16.51	9775.9	
2/9/2016 7:42		2/9/2016	7:42	37	32	44	10	22.0		36.1	4.12	9780.1	
2/9/2016 9:10		2/9/2016	9:10	36.5	29.5	54	14	30.3		2297.5	262.84	10042.9	
2/9/2016 11:18		2/9/2016	11:18	36	28.5	57	15	32.2		3995.8	457.12	10500.0	
2/9/2016 13:07		2/9/2016	13:07	36	28	60	15.5	33.1		3559.3	407.18	10907.2	
2/9/2016 15:05		2/9/2016	15:05	36	28	60	15.5	33.1		3910.5	447.36	11354.6	
2/9/2016 16:15		2/9/2016	16:15	35	27	60	16	33.9		2345.2	268.29	11622.8	
2/9/2016 16:18		2/9/2016	16:18		21					101.6	11.62	11634.5	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-153 Event 10	2/16/2016 7:19	2/16/2016	7:19	27.5	27.5	60	4	7.8			11634.5
	2/16/2016 7:42	2/16/2016	7:42	27.5	27	60	6	11.7	224.0	25.62	11660.1
	2/16/2016 7:43	2/16/2016	7:43	35	32	60	10	21.2	16.4	1.88	11662.0
	2/16/2016 8:49	2/16/2016	8:49	35	30	60	12	25.4	1536.6	175.79	11837.8
	2/16/2016 10:03	2/16/2016	10:03	31	27.5	64	12	24.2	1836.7	210.11	12047.9
	2/16/2016 10:08	2/16/2016	10:08	34	29.5	65	15.5	32.3	141.4	16.17	12064.0
	2/16/2016 11:06	2/16/2016	11:06	34.5	29	66	16	33.5	1908.1	218.29	12282.3
	2/16/2016 11:09	2/16/2016	11:09	37.5	30.5	66	17.5	37.7	106.9	12.22	12294.6
	2/16/2016 12:05	2/16/2016	12:05	37.5	29.5	68	18.5	39.8	2172.1	248.49	12543.0
	2/16/2016 12:07	2/16/2016	12:07		22				79.7	9.11	12552.2
Total CO ₂ Mass (lbs):											12552.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-154 Event 1	10/26/2015 9:50	10/26/2015	9:50	14	8	74	0	0.0			0
	10/26/2015 9:57	10/26/2015	9:57	18	8	74	0	0.0	0.0	0.00	0.0
	10/26/2015 10:02	10/26/2015	10:02					0.0	0.0	0.00	0.0
	10/26/2015 10:18	10/26/2015	10:18	18	18	76	0	0.0	0.0	0.00	0.0
	10/26/2015 10:24	10/26/2015	10:24	21	21	76	0	0.0	0.0	0.00	0.0
	10/26/2015 10:37	10/26/2015	10:37	24	23	76	0	0.0	0.0	0.00	0.0
	10/26/2015 10:48	10/26/2015	10:48	28	27	76	0	0.0	0.0	0.00	0.0
	10/26/2015 11:22	10/26/2015	11:22	28	26	81	<2	0.0	0.0	0.00	0.0
	10/26/2015 11:25	10/26/2015	11:25	30	28	81	4	7.9	11.8	1.35	1.3
	10/26/2015 11:34	10/26/2015	11:34	32	30	81	5.5	11.0	85.1	9.73	11.1
	10/26/2015 12:39	10/26/2015	12:39	32	29	82	5.5	11.0	717.9	82.12	93.2
	10/26/2015 12:42	10/26/2015	12:42	33.5	31	82	7	14.3	38.0	4.34	97.5
	10/26/2015 14:14	10/26/2015	14:14	33.5	31	80	8	16.3	1408.7	161.15	258.7
	10/26/2015 16:07	10/26/2015	16:07	33	30.5	78	8	16.3	1844.1	210.96	469.7
10/26/2015 16:36	10/26/2015	16:36	33	30.5	78	8	16.3	472.5	54.05	523.7	
10/26/2015 16:37	10/26/2015	16:37		21				16.3	1.86	525.6	
SW-154 Event 2	11/18/2015 9:05	11/18/2015	9:05	27	26	78	0	0.0			525.6
	11/18/2015 9:44	11/18/2015	9:44	26	25	78	<2	0.0	0.0	0.00	525.6
	11/18/2015 9:45	11/18/2015	9:45	31	29	78	6	12.0	6.0	0.68	526.3
	11/18/2015 10:44	11/18/2015	10:44	30.5	28	79	6	11.9	703.1	80.44	606.7
	11/18/2015 11:57	11/18/2015	11:57	30.5	28	82	6	11.8	865.9	99.06	705.8
	11/18/2015 13:07	11/18/2015	13:07	30.5	27.5	77	6	11.9	831.1	95.08	800.8
	11/18/2015 15:05	11/18/2015	15:05	30	27	74	7	13.8	1519.1	173.79	974.6
	11/18/2015 16:55	11/18/2015	16:55	30	26	74	7	13.8	1523.1	174.25	1148.9
	11/18/2015 16:56	11/18/2015	16:56		23.5				13.8	1.58	1150.5
SW-154 Event 3	11/23/2015 8:02	11/23/2015	8:02	24	24	49	0	0.0			1150.5
	11/23/2015 8:24	11/23/2015	8:24	24	23	51	<2	0.0	0.0	0.00	1150.5
	11/23/2015 8:30	11/23/2015	8:30	27	25.5	51	5	9.8	29.3	3.35	1153.8
	11/23/2015 9:42	11/23/2015	9:42	27	25	62	5	9.7	699.4	80.02	1233.8
	11/23/2015 11:51	11/23/2015	11:51	27	25	70	5.5	10.5	1303.2	149.09	1382.9
	11/23/2015 14:17	11/23/2015	14:17	27	24	72	6	11.5	1607.8	183.93	1566.8
	11/23/2015 14:19	11/23/2015	14:19	31	27	72	9	18.0	29.5	3.38	1570.2
	11/23/2015 15:40	11/23/2015	15:40	30.5	27	71	9	18.0	1457.8	166.77	1737.0
	11/23/2015 17:16	11/23/2015	17:16	30.5	26.5	64	9	18.1	1729.7	197.88	1934.9
11/23/2015 17:19	11/23/2015	17:19		21				54.2	6.20	1941.1	
SW-154 Event 4	12/1/2015 7:47	12/1/2015	7:47	24	24	67	0	0.0			1941.1
	12/1/2015 8:12	12/1/2015	8:12	24	23	67	<2	0.0	0.0	0.00	1941.1
	12/1/2015 8:14	12/1/2015	8:14	31	29	67	7	14.1	14.1	1.61	1942.7
	12/1/2015 9:25	12/1/2015	9:25	31	28	70	8	16.1	1070.9	122.51	2065.2
	12/1/2015 10:58	12/1/2015	10:58	30	27.5	78	8	15.8	1480.1	169.32	2234.5
	12/1/2015 12:13	12/1/2015	12:13	30	27.5	80	8	15.7	1181.2	135.13	2369.6
	12/1/2015 14:00	12/1/2015	14:00	30	27.5	80	8.5	16.7	1736.1	198.61	2568.3
	12/1/2015 15:32	12/1/2015	15:32	30	27	78	9	17.7	1584.8	181.30	2749.6
	12/1/2015 16:57	12/1/2015	16:57	30	26.5	72	9.5	18.8	1553.9	177.77	2927.3
	12/1/2015 17:00	12/1/2015	17:00		19				56.5	6.46	2933.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-154 Event 5	12/8/2015 8:10	12/8/2015	8:10	28	28	52	0	0.0				2933.8	
	12/8/2015 8:37	12/8/2015	8:37	27.5	26.5	61	<2	0.0	0.0	0.00		2933.8	
	12/8/2015 8:42	12/8/2015	8:42	31	29	61	5	10.1	25.3	2.90		2936.7	
	12/8/2015 10:18	12/8/2015	10:18	31	29	74	5	10.0	966.4	110.55		3047.2	
	12/8/2015 11:34	12/8/2015	11:34	30.5	28.5	76	5.5	10.9	795.0	90.95		3138.2	
	12/8/2015 11:37	12/8/2015	11:37	33	30	76	7.5	15.3	39.3	4.50		3142.7	
	12/8/2015 12:42	12/8/2015	12:42	33	29.5	76	7.5	15.3	994.7	113.79		3256.5	
	12/8/2015 14:11	12/8/2015	14:11	33	29	76	8	16.3	1407.4	161.00		3417.5	
	12/8/2015 15:38	12/8/2015	15:38	33	29	74	8.5	17.4	1466.0	167.71		3585.2	
	12/8/2015 16:48	12/8/2015	16:48	32.5	28.5	68	9	18.4	1252.5	143.29		3728.5	
	12/8/2015 16:55	12/8/2015	16:55		23.5				128.9	14.74		3743.2	
	SW-154 Event 6	12/15/2015 7:49	12/15/2015	7:49	27	26	68	0	0.0				3743.2
12/15/2015 8:15		12/15/2015	8:15	26.5	25	68	4	7.6	99.3	11.36		3754.6	
12/15/2015 8:19		12/15/2015	8:19	32	29.5	68	9	18.3	51.9	5.94		3760.5	
12/15/2015 9:52		12/15/2015	9:52	32	28.5	76	9	18.2	1696.2	194.04		3954.6	
12/15/2015 11:34		12/15/2015	11:34	32.5	29	81	8.5	17.2	1802.1	206.16		4160.7	
12/15/2015 13:22		12/15/2015	13:22	32.5	28	82	8.5	17.2	1853.3	212.02		4372.7	
12/15/2015 13:27		12/15/2015	13:27	35	30	82	10	20.7	94.7	10.83		4383.6	
12/15/2015 14:53		12/15/2015	14:53	35	30	82	11	22.8	1870.5	213.98		4597.6	
12/15/2015 16:10		12/15/2015	16:10	35	29.5	80	11	22.8	1756.2	200.91		4798.5	
12/15/2015 17:12		12/15/2015	17:12	35.5	29.5	72	12	25.2	1489.7	170.42		4968.9	
12/16/2015 7:39		12/16/2015	7:39	35	27.5	68	14	29.4	23679.1	2708.88		7677.8	
12/16/2015 7:42		12/16/2015	7:42		23.5				88.2	10.09		7687.9	
SW-154 Event 7		1/7/2016 8:04	1/7/2016	8:04	27	27	53	<2	0.0				7687.9
		1/7/2016 8:37	1/7/2016	8:37	27	25	55	3	5.8	96.3	11.02		7698.9
	1/7/2016 8:39	1/7/2016	8:39	33	31	55	7	14.6	20.4	2.34		7701.2	
	1/7/2016 10:28	1/7/2016	10:28	33.5	30	62	8	16.6	1701.5	194.65		7895.9	
	1/7/2016 11:50	1/7/2016	11:50	33	29.5	63	8.5	17.6	1402.3	160.43		8056.3	
	1/7/2016 14:36	1/7/2016	14:36	33	29	64	9.5	19.6	3085.9	353.02		8409.3	
	1/7/2016 15:30	1/7/2016	15:30	33	28	63	9.5	19.6	1059.6	121.22		8530.5	
	1/7/2016 17:05	1/7/2016	17:05	33	28.5	63	9.5	19.6	1865.1	213.37		8743.9	
	1/8/2016 7:56	1/8/2016	7:56	32	26	59	12	24.6	19719.6	2255.93		10999.8	
	1/8/2016 7:57	1/8/2016	7:57		22				24.6	2.82		11002.6	
	SW-154 Event 8	1/13/2016 8:04	1/13/2016	8:04	28	27	42	4	8.0				11002.6
1/13/2016 8:22		1/13/2016	8:22	27.5	25	47	7	13.8	196.2	22.44		11025.1	
1/13/2016 8:23		1/13/2016	8:23	33	30	47	9	18.9	16.4	1.87		11027.0	
1/13/2016 10:00		1/13/2016	10:00	31.5	28.5	61	9.5	19.4	1855.5	212.27		11239.2	
1/13/2016 11:30		1/13/2016	11:30	31	27.5	66	9.5	19.2	1732.9	198.24		11437.5	
1/13/2016 14:03		1/13/2016	14:03	31	27	67	10	20.1	3006.0	343.89		11781.4	
1/13/2016 15:33		1/13/2016	15:33	31	26.5	64	10	20.2	1815.4	207.68		11989.0	
1/13/2016 17:06		1/13/2016	17:06	31	26.5	60	10.5	21.3	1929.6	220.75		12209.8	
1/13/2016 17:07		1/13/2016	17:07		22				21.3	2.44		12212.2	
SW-154 Event 9	2/9/2016 7:42	2/9/2016	7:42	30	28	45	4.5	9.2				12212.2	
	2/9/2016 8:01	2/9/2016	8:01	29	26	51	7	14.0	220.1	25.18		12237.4	
	2/9/2016 8:02	2/9/2016	8:02	36	32	51	9.5	20.5	17.3	1.97		12239.4	
	2/9/2016 9:19	2/9/2016	9:19	35.5	29.5	58	12	25.6	1774.0	202.94		12442.3	
	2/9/2016 11:38	2/9/2016	11:38	35.5	29	62	12	25.5	3548.4	405.94		12848.2	
	2/9/2016 13:35	2/9/2016	13:35	35.5	29	64	12	25.4	2977.8	340.66		13188.9	
	2/9/2016 15:31	2/9/2016	15:31	35	28	64	12.5	26.4	3003.1	343.55		13532.5	
	2/9/2016 17:03	2/9/2016	17:03	35	28	62	12.5	26.4	2426.7	277.62		13810.1	

LCP Chemicals Site, Brunswick, GA
SW-154

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/9/2016 17:05	2/9/2016	17:05		24					52.8	6.04	13816.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-154 Event 10	2/11/2016 7:27	2/11/2016	7:27	30.5	28	38	5	10.3			13816.1
	2/11/2016 7:46	2/11/2016	7:46	30	25.5	47	11	22.4	310.3	35.50	13851.6
	2/11/2016 7:49	2/11/2016	7:49	37	32	47	13.5	29.5	77.8	8.90	13860.5
	2/11/2016 9:04	2/11/2016	9:04	38	31	56	16	35.0	2421.4	277.01	14137.5
	2/11/2016 12:29	2/11/2016	12:29	38	30.5	64	16.5	35.8	7263.8	830.98	14968.5
	2/11/2016 13:47	2/11/2016	13:47	38.5	29.5	68	16.5	35.9	2796.4	319.90	15288.4
	2/11/2016 13:07	2/11/2016	13:07	38.5	29	66	16.5	35.9	-1436.1	-164.28	15124.1
	2/11/2016 16:13	2/11/2016	16:13	38.5	29	66	16.5	35.9	6684.3	764.68	15888.8
	2/11/2016 17:13	2/11/2016	17:13	38.5	29	63	16.5	36.0	2159.4	247.04	16135.9
	2/11/2016 17:14	2/11/2016	17:14		24				36.0	4.12	16140.0
Total CO ₂ Mass (lbs):											16140.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-155 Event 1	10/27/2015 12:17	10/27/2015	12:17	20	20	72	0	0.0				0
	10/27/2015 12:27	10/27/2015	12:27	22	23	72	0	0.0		0.0	0.00	0.0
	10/27/2015 12:30	10/27/2015	12:30	24	25	72	0	0.0		0.0	0.00	0.0
	10/27/2015 12:36	10/27/2015	12:36	26	27	72	0	0.0		0.0	0.00	0.0
	10/27/2015 12:42	10/27/2015	12:42	28	28	72	5	9.7		29.0	3.32	3.3
	10/27/2015 12:49	10/27/2015	12:49	30	30	73	7	13.9		82.4	9.43	12.7
	10/27/2015 14:32	10/27/2015	14:32	30	29	74	9	17.8		1630.7	186.55	199.3
	10/27/2015 14:33	10/27/2015	14:33	32	31	74	13	26.3		22.0	2.52	201.8
	10/27/2015 15:36	10/27/2015	15:36	31	31	76	12	24.0		1582.9	181.09	382.9
	10/27/2015 16:17	10/27/2015	16:17	30	31	76	12	23.7		976.8	111.75	494.7
	10/27/2015 17:06	10/27/2015	17:06	30	31	76	12	23.7		1160.9	132.81	627.5
10/27/2015 17:07	10/27/2015	17:07		24					23.7	2.71	630.2	
SW-155 Event 2	11/13/2015 7:43	11/13/2015	7:43	28	28	64	<2	0.0				630.2
	11/13/2015 7:48	11/13/2015	7:48	32	29	64	6	12.3		30.6	3.50	633.7
	11/13/2015 7:49	11/13/2015	7:49	37	32	65	10	21.5		16.9	1.93	635.6
	11/13/2015 8:29	11/13/2015	8:29	36.5	30	70	12	25.5		940.3	107.58	743.2
	11/13/2015 8:32	11/13/2015	8:32	39	31.5	70	13	28.3		80.8	9.24	752.4
	11/13/2015 9:45	11/13/2015	9:45	38	29.5	75	15	32.2		2210.6	252.89	1005.3
	11/13/2015 9:46	11/13/2015	9:46	42	31	75	16	35.7		34.0	3.88	1009.2
	11/13/2015 10:34	11/13/2015	10:34	42	30.5	76	17	37.9		1765.2	201.94	1211.1
	11/13/2015 11:09	11/13/2015	11:09	42	30.5	77	17	37.8		1324.9	151.56	1362.7
	11/13/2015 11:10	11/13/2015	11:10		22					37.8	4.33	1367.0
SW-155 Event 3	11/16/2015 7:47	11/16/2015	7:47	27	28	64	0	0.0				1367.0
	11/16/2015 8:27	11/16/2015	8:27	26.5	26	70	6	11.4		228.6	26.16	1393.2
	11/16/2015 8:33	11/16/2015	8:33	33	32.5	70	10	20.5		95.9	10.97	1404.2
	11/16/2015 9:57	11/16/2015	9:57	33	32.5	77	10	20.4		1718.1	196.56	1600.7
	11/16/2015 10:48	11/16/2015	10:48	33	32	79	12	24.4		1142.4	130.69	1731.4
	11/16/2015 12:10	11/16/2015	12:10	32.5	31.5	80	12.5	25.3		2037.1	233.05	1964.4
	11/16/2015 14:27	11/16/2015	14:27	32	30.5	79	14	28.2		3661.4	418.86	2383.3
	11/16/2015 17:15	11/16/2015	17:15	32	30	70	14	28.4		4754.8	543.95	2927.3
	11/16/2015 17:16	11/16/2015	17:16		22.5					28.4	3.25	2930.5
SW-155 Event 4	12/14/2015 7:53	12/14/2015	7:53	28	28	72	0	0.0				2930.5
	12/14/2015 8:21	12/14/2015	8:21	28	27.5	72	3	5.8		81.3	9.30	2939.8
	12/14/2015 8:25	12/14/2015	8:25	33	32.5	72	9	18.4		48.5	5.55	2945.4
	12/14/2015 10:10	12/14/2015	10:10	32.5	31.5	74	10	20.3		2035.4	232.85	3178.2
	12/14/2015 12:01	12/14/2015	12:01	32	30	77	12	24.2		2471.7	282.76	3461.0
	12/14/2015 13:38	12/14/2015	13:38	31	29.5	77	12.5	24.9		2383.0	272.61	3733.6
	12/14/2015 15:00	12/14/2015	15:00	31.5	29.5	77	14	28.1		2173.5	248.65	3982.2
	12/14/2015 15:57	12/14/2015	15:57	31	29	76	14	28.0		1596.9	182.69	4164.9
	12/14/2015 17:05	12/14/2015	17:05	31.5	29	75	15	30.1		1975.2	225.97	4390.9
12/14/2015 17:07	12/14/2015	17:07		22.5					60.3	6.90	4397.8	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-155 Event 5	12/18/2015 7:59	12/18/2015	7:59	29	27.5	68	0	0.0			4397.8
	12/18/2015 8:28	12/18/2015	8:28	28	26.5	67	4	7.8	112.9	12.91	4410.7
	12/18/2015 8:29	12/18/2015	8:29	33	30.5	67	8	16.5	12.1	1.39	4412.1
	12/18/2015 9:30	12/18/2015	9:30	33	30.5	68	9	18.5	1066.7	122.03	4534.1
	12/18/2015 10:30	12/18/2015	10:30	32.5	29	74	9	18.3	1104.3	126.33	4660.4
	12/18/2015 11:38	12/18/2015	11:38	32	28	77	9.5	19.2	1273.6	145.70	4806.1
	12/18/2015 12:34	12/18/2015	12:34	32	28	75	9.5	19.2	1073.9	122.85	4929.0
	12/18/2015 13:30	12/18/2015	13:30	31.5	27	75	10	20.1	1100.1	125.86	5054.9
	12/18/2015 14:29	12/18/2015	14:29	33	27.5	73	11	22.5	1256.9	143.79	5198.6
	12/18/2015 14:30	12/18/2015	14:30		22.5				22.5	2.58	5201.2
SW-155 Event 6	12/21/2015 7:33	12/21/2015	7:33	28	27	60	0	0.0			5201.2
	12/21/2015 7:58	12/21/2015	7:58	27	25	62	4	7.7	96.6	11.05	5212.3
	12/21/2015 7:59	12/21/2015	7:59	32	28	62	7	14.3	11.0	1.26	5213.5
	12/21/2015 9:19	12/21/2015	9:19	32.5	28.5	70	8	16.3	1226.3	140.29	5353.8
	12/21/2015 11:36	12/21/2015	11:36	31.5	28	74	9	18.1	2358.8	269.85	5623.7
	12/21/2015 13:01	12/21/2015	13:01	31.5	27	80	10	20.0	1619.4	185.26	5808.9
	12/21/2015 14:19	12/21/2015	14:19	31.5	26	72	10.5	21.2	1605.3	183.64	5992.6
	12/21/2015 15:12	12/21/2015	15:12	31.5	26	72	10.5	21.2	1121.6	128.31	6120.9
	12/21/2015 16:05	12/21/2015	16:05	31.5	26	71	10.5	21.2	1122.1	128.37	6249.2
	12/21/2015 16:59	12/21/2015	16:59	31.5	26	70	10.5	21.2	1144.4	130.92	6380.2
	12/21/2015 17:00	12/21/2015	17:00		19				21.2	2.43	6382.6
	SW-155 Event 7	1/11/2016 8:06	1/11/2016	8:06	29	29	40	0	0.0		
1/11/2016 8:31		1/11/2016	8:31	29	27	50	4.5	9.0	112.6	12.89	6395.5
1/11/2016 8:32		1/11/2016	8:32	32	31	50	9	18.6	13.8	1.58	6397.1
1/11/2016 10:14		1/11/2016	10:14	31	30	62	9	18.2	1879.8	215.05	6612.1
1/11/2016 11:52		1/11/2016	11:52	30	29.5	66	11	21.9	1967.2	225.05	6837.2
1/11/2016 13:54		1/11/2016	13:54	30	28	68	13	25.9	2915.6	333.54	7170.7
1/11/2016 15:19		1/11/2016	15:19	29.5	28	68	14	27.7	2276.4	260.43	7431.1
1/11/2016 17:01		1/11/2016	17:01	29.5	28	64	14.5	28.8	2881.3	329.63	7760.8
1/11/2016 17:02		1/11/2016	17:02		22				28.8	3.29	7764.0
SW-155 Event 8	1/20/2016 7:51	1/20/2016	7:51	26	27	36	0	0.0			7764.0
	1/20/2016 8:21	1/20/2016	8:21	26	25	48	<2	0.0	0.0	0.00	7764.0
	1/20/2016 8:22	1/20/2016	8:22	32	30.5	48	8.5	17.6	8.8	1.01	7765.1
	1/20/2016 9:42	1/20/2016	9:42	34	30	60	9	18.9	1459.8	167.00	7932.1
	1/20/2016 11:07	1/20/2016	11:07	34	29	64	10.5	21.9	1732.3	198.18	8130.2
	1/20/2016 12:34	1/20/2016	12:34	33	28	65	11.5	23.7	1984.7	227.05	8357.3
	1/20/2016 14:22	1/20/2016	14:22	33	27.5	66	12	24.7	2616.0	299.27	8656.6
	1/20/2016 15:59	1/20/2016	15:59	32.5	26.5	64	12.5	25.7	2444.1	279.61	8936.2
	1/20/2016 17:03	1/20/2016	17:03	30	26	61	13	26.0	1654.9	189.32	9125.5
	1/20/2016 17:05	1/20/2016	17:05		22.5				52.1	5.96	9131.4
SW-155 Event 9	1/29/2016 7:27	1/29/2016	7:27	27	26	46	0	0.0			9131.4
	1/29/2016 7:57	1/29/2016	7:57	26	25	49	<2	0.0	0.0	0.00	9131.4
	1/29/2016 7:58	1/29/2016	7:58	32	32.5	49	10	20.7	10.4	1.19	9132.6
	1/29/2016 9:27	1/29/2016	9:27	33	31.5	63	12	24.8	2026.3	231.80	9364.4
	1/29/2016 10:39	1/29/2016	10:39	32.5	30.5	67	13.5	27.6	1887.8	215.97	9580.4
	1/29/2016 11:49	1/29/2016	11:49	32.5	29.5	70	14.5	29.6	2003.4	229.19	9809.6
1/29/2016 11:50	1/29/2016	11:50		23				29.6	3.39	9813.0	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-155 Event 10	2/1/2016 7:54	2/1/2016	7:54	27	28	52	0	0.0			9813.0
	2/1/2016 8:18	2/1/2016	8:18	26	26	57	5	9.6	115.1	13.17	9826.1
	2/1/2016 8:19	2/1/2016	8:19	33	32	57	13	27.0	18.3	2.09	9828.2
	2/1/2016 9:33	2/1/2016	9:33	33	32	66	13	26.8	1991.1	227.78	10056.0
	2/1/2016 11:11	2/1/2016	11:11	33	30.5	73	15	30.7	2816.6	322.22	10378.2
	2/1/2016 12:33	2/1/2016	12:33	32.5	30	75	16	32.5	2591.2	296.43	10674.7
	2/1/2016 14:04	2/1/2016	14:04	32.5	29.5	75	17.5	35.6	3096.5	354.24	11028.9
	2/1/2016 15:37	2/1/2016	15:37	32	29	74	18	36.4	3346.0	382.78	11411.7
	2/1/2016 16:59	2/1/2016	16:59	31.5	28.5	70	18.5	37.4	3024.3	345.98	11757.7
	2/1/2016 17:01	2/1/2016	17:01		23.5				74.7	8.55	11766.2
SW-155 Event 11	2/8/2016 7:36	2/8/2016	7:36	29	30	44	4	8.1			11766.2
	2/8/2016 8:12	2/8/2016	8:12	28.5	28	54	7.5	14.9	412.8	47.22	11813.4
	2/8/2016 8:13	2/8/2016	8:13	33.5	32.5	54	13	27.3	21.1	2.41	11815.8
	2/8/2016 9:22	2/8/2016	9:22	34	32	60	15	31.4	2024.3	231.58	12047.4
	2/8/2016 10:57	2/8/2016	10:57	33.5	31.5	64	17	35.3	3168.5	362.47	12409.9
	2/8/2016 12:05	2/8/2016	12:05	33	30.5	65	18	37.1	2461.9	281.64	12691.5
	2/8/2016 13:09	2/8/2016	13:09	33	30	66	18.5	38.1	2407.8	275.45	12967.0
	2/8/2016 14:24	2/8/2016	14:24	33	29.5	66	19	39.1	2897.5	331.48	13298.5
	2/8/2016 15:44	2/8/2016	15:44	33	29	65	20	41.2	3215.9	367.90	13666.4
	2/8/2016 17:08	2/8/2016	17:08	32.5	28.5	63	20	41.1	3459.2	395.73	14062.1
	2/8/2016 17:09	2/8/2016	17:09		23				41.1	4.70	14066.8
	SW-155 Event 12	2/11/2016 12:33	2/11/2016	12:33	33	33	66	0	0.0		
2/11/2016 13:48		2/11/2016	13:48	30.5	29	68	10	20.0	750.4	85.84	14152.6
2/11/2016 13:49		2/11/2016	13:49	34	31	68	13	27.0	23.5	2.69	14155.3
2/11/2016 15:08		2/11/2016	15:08	33.5	31	66	16	33.1	2376.3	271.85	14427.2
2/11/2016 16:14		2/11/2016	16:14	33	30.5	66	18	37.1	2317.6	265.13	14692.3
2/11/2016 17:11		2/11/2016	17:11	33	30.5	63	18	37.2	2117.2	242.20	14934.5
SW-155 Event 13	2/11/2016 17:12	2/11/2016	17:12		23.5				37.2	4.26	14938.8
	2/12/2016 7:18	2/12/2016	7:18	29	29	60	<2	0.0			14938.8
	2/12/2016 7:45	2/12/2016	7:45	28.5	27	60	6	11.8	159.7	18.26	14957.0
	2/12/2016 7:46	2/12/2016	7:46	35	33.5	60	12	25.4	18.6	2.13	14959.2
	2/12/2016 8:48	2/12/2016	8:48	35	32.5	60	14	29.6	1705.9	195.16	15154.3
	2/12/2016 10:01	2/12/2016	10:01	34	32	64	18	37.6	2452.3	280.54	15434.9
	2/12/2016 11:05	2/12/2016	11:05	34	31	66	18.5	38.5	2434.5	278.51	15713.4
	2/12/2016 11:10	2/12/2016	11:10	35	32	66	21	44.2	206.8	23.65	15737.0
	2/12/2016 12:04	2/12/2016	12:04	36	31.5	68	21.5	45.6	2424.2	277.33	16014.4
	2/12/2016 12:05	2/12/2016	12:05		24				45.6	5.22	16019.6
Total CO ₂ Mass (lbs):											16019.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-156 Event 1	10/26/2015 9:55	10/26/2015	9:55	14	14	74	0	0.0				0
	10/26/2015 10:03	10/26/2015	10:03	18	21	74	0	0.0		0.0	0.00	0.0
	10/26/2015 10:15	10/26/2015	10:15	18	20	76	0	0.0		0.0	0.00	0.0
	10/26/2015 10:16	10/26/2015	10:16	21	23	76	0	0.0		0.0	0.00	0.0
	10/26/2015 10:27	10/26/2015	10:27	24	25	76	0	0.0		0.0	0.00	0.0
	10/26/2015 10:42	10/26/2015	10:42	27	28	76	3	5.7		42.9	4.91	4.9
	10/26/2015 10:51	10/26/2015	10:51	30	31	76	7	13.8		87.9	10.06	15.0
	10/26/2015 11:28	10/26/2015	11:28	30	30	81	10	19.6		619.2	70.83	85.8
	10/26/2015 11:30	10/26/2015	11:30	32	32	81	14	28.1		47.8	5.47	91.3
	10/26/2015 12:39	10/26/2015	12:39	32	31	82	16	32.1		2078.2	237.74	329.0
	10/26/2015 14:18	10/26/2015	14:18	32	30.5	80	16	32.2		3182.2	364.04	693.0
	10/26/2015 16:09	10/26/2015	16:09	31	30	78	17	33.9		3665.8	419.37	1112.4
	10/26/2015 16:38	10/26/2015	16:38	31	30	78	17	33.9		982.4	112.39	1224.8
10/26/2015 16:40	10/26/2015	16:40		21					67.8	7.75	1232.6	
SW-156 Event 2	11/20/2015 7:54	11/20/2015	7:54	27	27	64	0	0.0				1232.6
	11/20/2015 8:15	11/20/2015	8:15	26	26.5	67	0	0.0		0.0	0.00	1232.6
	11/20/2015 8:19	11/20/2015	8:19	30	30	67	7	13.9		27.9	3.19	1235.7
	11/20/2015 9:32	11/20/2015	9:32	29.5	29.5	73	7	13.8		1011.9	115.76	1351.5
	11/20/2015 9:36	11/20/2015	9:36	31	31	73	11	22.0		71.6	8.19	1359.7
	11/20/2015 11:12	11/20/2015	11:12	31.5	30	77	12	24.1		2212.5	253.11	1612.8
	11/20/2015 13:04	11/20/2015	13:04	31	29.5	77	13.5	26.9		2855.8	326.70	1939.5
	11/20/2015 15:02	11/20/2015	15:02	31	29	77	14	27.9		3236.3	370.23	2309.7
	11/20/2015 17:12	11/20/2015	17:12	30.5	28	70	14.5	29.0		3697.4	422.98	2732.7
11/20/2015 17:13	11/20/2015	17:13		22.5					29.0	3.31	2736.0	
SW-156 Event 3	12/3/2015 7:48	12/3/2015	7:48	25	26	58	0	0.0				2736.0
	12/3/2015 8:07	12/3/2015	8:07	25	25	61	0	0.0		0.0	0.00	2736.0
	12/3/2015 8:09	12/3/2015	8:09	30	30	61	7	14.0		14.0	1.60	2737.6
	12/3/2015 10:25	12/3/2015	10:25	29.5	29.5	66	8	15.9		2032.0	232.46	2970.1
	12/3/2015 10:26	12/3/2015	10:26	32	31	66	12	24.5		20.2	2.31	2972.4
	12/3/2015 11:45	12/3/2015	11:45	32	30.5	70	13	26.4		2008.8	229.81	3202.2
	12/3/2015 13:54	12/3/2015	13:54	31	29.5	73	14	28.0		3510.6	401.62	3603.8
	12/3/2015 15:28	12/3/2015	15:28	31	29	72	16	32.1		2824.8	323.16	3927.0
	12/3/2015 17:03	12/3/2015	17:03	31	28	67	16	32.2		3054.0	349.38	4276.4
	12/3/2015 17:04	12/3/2015	17:04		22.5					32.2	3.69	4280.1
SW-156 Event 4	12/11/2015 7:36	12/11/2015	7:36	28	28	55	0	0.0				4280.1
	12/11/2015 7:59	12/11/2015	7:59	27	27	60	3	5.8		66.8	7.64	4287.7
	12/11/2015 8:00	12/11/2015	8:00	32.5	32.5	60	9.5	19.6		12.7	1.45	4289.2
	12/11/2015 9:06	12/11/2015	9:06	32.5	31	70	9.5	19.4		1286.3	147.16	4436.3
	12/11/2015 10:10	12/11/2015	10:10	31	30	76	10	20.0		1259.5	144.09	4580.4
	12/11/2015 10:56	12/11/2015	10:56	31.5	29.5	79	11	22.0		965.7	110.47	4690.9
	12/11/2015 10:57	12/11/2015	10:57		24					22.0	2.52	4693.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-156 Event 5	12/15/2015 7:52	12/15/2015	7:52	29	29	68	0	0.0				4693.4
	12/15/2015 8:16	12/15/2015	8:16	27.5	27.5	68	4	7.7		92.8	10.61	4704.0
	12/15/2015 8:18	12/15/2015	8:18	32	31.5	68	8	16.3		24.0	2.75	4706.7
	12/15/2015 9:50	12/15/2015	9:50	32	30.5	76	10	20.2		1677.2	191.87	4898.6
	12/15/2015 11:32	12/15/2015	11:32	31	30	81	11.5	22.9		2194.9	251.09	5149.7
	12/15/2015 13:20	12/15/2015	13:20	30	28.5	82	12.5	24.5		2559.0	292.74	5442.5
	12/15/2015 14:51	12/15/2015	14:51	30	28.5	82	14	27.5		2366.9	270.77	5713.2
	12/15/2015 16:07	12/15/2015	16:07	30	28	80	14	27.5		2090.6	239.17	5952.4
	12/15/2015 17:07	12/15/2015	17:07	29.5	27.5	72	14.5	28.6		1683.3	192.57	6145.0
	12/15/2015 17:10	12/15/2015	17:10		23					85.7	9.81	6154.8
SW-156 Event 6	1/8/2016 8:02	1/8/2016	8:02	25	25.5	59	0	0.0				6154.8
	1/8/2016 8:22	1/8/2016	8:22	25	24.5	60	0	0.0		0.0	0.00	6154.8
	1/8/2016 8:23	1/8/2016	8:23	32	31	60	10	20.5		10.3	1.17	6155.9
	1/8/2016 9:59	1/8/2016	9:59	31	30	62	10	20.2		1955.9	223.75	6379.7
	1/8/2016 11:18	1/8/2016	11:18	31	30	65	11	22.2		1676.4	191.78	6571.5
	1/8/2016 13:35	1/8/2016	13:35	29.5	27.5	67	13.5	26.7		3352.0	383.46	6954.9
	1/8/2016 14:52	1/8/2016	14:52	29	27.5	67	14	27.6		2090.5	239.16	7194.1
	1/8/2016 16:08	1/8/2016	16:08	29	27.5	66	14.5	28.6		2133.4	244.06	7438.2
	1/8/2016 17:08	1/8/2016	17:08	30	26	64	15	30.0		1756.2	200.91	7639.1
	1/8/2016 17:09	1/8/2016	17:09		21					30.0	3.43	7642.5
SW-156 Event 7	1/12/2016 7:45	1/12/2016	7:45	29	29	37	0	0.0				7642.5
	1/12/2016 8:14	1/12/2016	8:14	28	27.5	45	5.5	10.9		158.6	18.15	7660.6
	1/12/2016 8:16	1/12/2016	8:16	33	32	45	12	25.3		36.2	4.14	7664.8
	1/12/2016 10:09	1/12/2016	10:09	32	30	64	14	28.6		3042.5	348.06	8012.8
	1/12/2016 11:30	1/12/2016	11:30	32	30	68	14.5	29.5		2352.8	269.16	8282.0
	1/12/2016 12:42	1/12/2016	12:42	31	29	68	15	30.2		2148.5	245.79	8527.8
	1/12/2016 14:20	1/12/2016	14:20	30.5	28	69	16	32.0		3046.2	348.48	8876.3
	1/12/2016 15:59	1/12/2016	15:59	30	27.5	68	17	33.8		3257.5	372.66	9248.9
	1/12/2016 17:07	1/12/2016	17:07	30	27	64	18	36.0		2372.5	271.42	9520.4
	1/12/2016 17:08	1/12/2016	17:08		21.5					36.0	4.11	9524.5
SW-156 Event 8	1/19/2016 7:44	1/19/2016	7:44	27	28	44	0	0.0				9524.5
	1/19/2016 8:10	1/19/2016	8:10	26.5	27	46	4	7.8		101.5	11.61	9536.1
	1/19/2016 8:11	1/19/2016	8:11	31	31	46	12	24.7		16.2	1.86	9537.9
	1/19/2016 9:49	1/19/2016	9:49	31	30	56	12	24.4		2406.9	275.35	9813.3
	1/19/2016 11:40	1/19/2016	11:40	31	29.5	62	13	26.3		2816.6	322.22	10135.5
	1/19/2016 14:27	1/19/2016	14:27	30	28	64	14.5	29.0		4615.7	528.04	10663.5
	1/19/2016 16:09	1/19/2016	16:09	29.5	27	64	16	31.8		3097.9	354.40	11017.9
	1/19/2016 17:15	1/19/2016	17:15	29.5	27	59	16	31.9		2102.6	240.54	11258.5
	1/19/2016 17:17	1/19/2016	17:17		21					63.9	7.31	11265.8
	SW-156 Event 9	1/26/2016 8:45	1/26/2016	8:45	28	28	58	0	0.0			
1/26/2016 9:45		1/26/2016	9:45	26.5	26.5	62	5	9.6		288.1	32.95	11298.7
1/26/2016 9:46		1/26/2016	9:46	32.5	32	62	13	26.7		18.2	2.08	11300.8
1/26/2016 12:07		1/26/2016	12:07	32	30	68	14	28.5		3893.7	445.44	11746.3
1/26/2016 14:11		1/26/2016	14:11	32	29	68	16	32.6		3784.0	432.89	12179.1
1/26/2016 15:50		1/26/2016	15:50	31.5	28.5	67	16.5	33.4		3265.4	373.56	12552.7
1/26/2016 17:05		1/26/2016	17:05	30.5	28	63	17	34.2		2535.1	290.01	12842.7
1/26/2016 17:07		1/26/2016	17:07		22					68.4	7.82	12850.5
Total CO ₂ Mass (lbs):											12850.5	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-157 Event 1	10/26/2015 8:24	10/26/2015	8:24	13	14	74	0	0.0				0
	10/26/2015 8:35	10/26/2015	8:35	15	15	74	0	0.0		0.0	0.00	0.0
	10/26/2015 8:42	10/26/2015	8:42	18	18	74	0	0.0		0.0	0.00	0.0
	10/26/2015 8:50	10/26/2015	8:50	22	22.5	74	0	0.0		0.0	0.00	0.0
	10/26/2015 8:56	10/26/2015	8:56	25	25	74	0	0.0		0.0	0.00	0.0
	10/26/2015 9:11	10/26/2015	9:11	25	25	74	0	0.0		0.0	0.00	0.0
	10/26/2015 9:19	10/26/2015	9:19	28	28	74	4	7.7		30.9	3.54	3.5
	10/26/2015 9:42	10/26/2015	9:42	32	31	74	8	16.2		275.0	31.46	35.0
	10/26/2015 10:04	10/26/2015	10:04	32	31	76	8	16.1		355.6	40.68	75.7
	10/26/2015 10:57	10/26/2015	10:57	32	30	78	9	18.1		908.5	103.93	179.6
	10/26/2015 11:00	10/26/2015	11:00	33	31	78	11.5	23.4		62.3	7.13	186.7
	10/26/2015 11:36	10/26/2015	11:36	33	31	82	11.5	23.3		841.5	96.27	283.0
	10/26/2015 12:36	10/26/2015	12:36	33	31	82	12	24.3		1430.2	163.62	446.6
	10/26/2015 14:10	10/26/2015	14:10	33	30.5	80	13	26.4		2386.1	272.97	719.6
	10/26/2015 15:58	10/26/2015	15:58	33	30	79	14	28.5		2965.0	339.19	1058.8
10/26/2015 17:00	10/26/2015	17:00	33	30	78	14	28.5		1766.8	202.12	1260.9	
10/26/2015 17:01	10/26/2015	17:01		24					28.5	3.26	1264.2	
SW-157 Event 2	11/13/2015 7:44	11/13/2015	7:44	26	27	64	0	0.0				1264.2
	11/13/2015 7:50	11/13/2015	7:50	31	32	65	5	10.1		30.3	3.46	1267.6
	11/13/2015 8:30	11/13/2015	8:30	32	31.5	70	6	12.2		445.5	50.96	1318.6
	11/13/2015 9:47	11/13/2015	9:47	30.5	29.5	75	7	13.9		1004.6	114.93	1433.5
	11/13/2015 9:48	11/13/2015	9:48	33	32	75	14	28.6		21.3	2.43	1436.0
	11/13/2015 10:34	11/13/2015	10:34	33.5	32.5	76	13	26.7		1271.0	145.40	1581.4
	11/13/2015 11:14	11/13/2015	11:14	33	32	80	14	28.5		1102.4	126.12	1707.5
	11/13/2015 11:16	11/13/2015	11:16		25					56.9	6.51	1714.0
SW-157 Event 3	11/18/2015 9:42	11/18/2015	9:42	27	27	78	0	0.0				1714.0
	11/18/2015 10:42	11/18/2015	10:42	26	26	78	0	0.0		0.0	0.00	1714.0
	11/18/2015 11:50	11/18/2015	11:50	26	26	80	3	5.6		191.3	21.89	1735.9
	11/18/2015 11:53	11/18/2015	11:53	28	28	80	6	11.5		25.7	2.94	1738.8
	11/18/2015 13:02	11/18/2015	13:02	28	27.5	78	6	11.6		796.3	91.10	1829.9
	11/18/2015 13:55	11/18/2015	13:55	28	27	76	8	15.4		715.1	81.81	1911.7
	11/18/2015 14:47	11/18/2015	14:47	28	26	75	10	19.3		903.3	103.33	2015.1
	11/18/2015 14:48	11/18/2015	14:48		23.5					19.3	2.21	2017.3
SW-157 Event 4	11/23/2015 7:57	11/23/2015	7:57	25	25.5	53	0	0.0				2017.3
	11/23/2015 8:15	11/23/2015	8:15	24	24	54	0	0.0		0.0	0.00	2017.3
	11/23/2015 8:20	11/23/2015	8:20	27	27.5	54	4	7.8		19.5	2.23	2019.5
	11/23/2015 9:32	11/23/2015	9:32	27.5	27.5	65	4	7.8		559.6	64.01	2083.5
	11/23/2015 9:35	11/23/2015	9:35	31	31	65	9	18.2		38.9	4.45	2088.0
	11/23/2015 11:45	11/23/2015	11:45	30.5	30	72	12	23.9		2735.3	312.91	2400.9
	11/23/2015 14:07	11/23/2015	14:07	29	28	72	14	27.4		3645.8	417.08	2817.9
	11/23/2015 14:11	11/23/2015	14:11	32	30	72	19	38.5		131.9	15.09	2833.0
	11/23/2015 15:46	11/23/2015	15:46	32	30	71	19.5	39.6		3707.7	424.16	3257.2
	11/23/2015 17:03	11/23/2015	17:03	32	29	68	20	40.7		3089.3	353.42	3610.6
11/23/2015 17:06	11/23/2015	17:06		21.5					122.1	13.96	3624.6	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-157 Event 5	12/3/2015 7:57	12/3/2015	7:57	25.5	25	70	0	0.0				3624.6
	12/3/2015 8:53	12/3/2015	8:53	25	24.5	71	0	0.0	0.0	0.00		3624.6
	12/3/2015 8:56	12/3/2015	8:56	31	31	71	10	20.1	30.1	3.44		3628.0
	12/3/2015 11:24	12/3/2015	11:24	31.5	30	80	14	28.0	3556.6	406.87		4034.9
	12/3/2015 12:42	12/3/2015	12:42	31	29	80	15.5	30.8	2294.3	262.46		4297.3
	12/3/2015 14:10	12/3/2015	14:10	31	28.5	82	17	33.7	2841.3	325.05		4622.4
	12/3/2015 15:44	12/3/2015	15:44	30.5	28	74	18	35.8	3269.1	373.98		4996.4
	12/3/2015 16:56	12/3/2015	16:56	30.5	27.5	72	19	37.9	2652.4	303.43		5299.8
	12/3/2015 16:57	12/3/2015	16:57		22				37.9	4.33		5304.1
SW-157 Event 6	12/11/2015 7:50	12/11/2015	7:50	38	38	52	0	0.0				5304.1
	12/11/2015 8:12	12/11/2015	8:12	30	30	66	26	51.8	570.2	65.23		5369.4
	12/11/2015 9:22	12/11/2015	9:22	28	28	78	24	46.2	3431.5	392.56		5761.9
	12/11/2015 9:22	12/11/2015	9:22	30	30	78	25	49.3	0.0	0.00		5761.9
	12/11/2015 11:02	12/11/2015	11:02	30	30	78	25	49.3	4926.3	563.56		6325.5
	12/11/2015 11:03	12/11/2015	11:03		22				49.3	5.64		6331.1
SW-157 Event 7	12/14/2015 7:47	12/14/2015	7:47	27	27	73	3	5.7				6331.1
	12/14/2015 8:10	12/14/2015	8:10	26.5	26	73	4	7.6	153.3	17.54		6348.7
	12/14/2015 8:15	12/14/2015	8:15	32	31.5	73	11	22.3	74.7	8.54		6357.2
	12/14/2015 10:07	12/14/2015	10:07	33	30.5	75	14	28.6	2848.3	325.85		6683.1
	12/14/2015 11:55	12/14/2015	11:55	30.5	28	77	16	31.7	3257.8	372.70		7055.8
	12/14/2015 13:36	12/14/2015	13:36	30	27.5	77	18	35.5	3395.6	388.46		7444.2
	12/14/2015 14:58	12/14/2015	14:58	31	27.5	77	20	39.9	3091.2	353.64		7797.9
	12/14/2015 15:55	12/14/2015	15:55	30.5	27	77	20	39.7	2267.6	259.41		8057.3
	12/14/2015 16:58	12/14/2015	16:58	30	27	76	20	39.5	2493.4	285.25		8342.5
	12/14/2015 17:04	12/14/2015	17:04		21				236.9	27.10		8369.6
SW-157 Event 8	12/18/2015 7:54	12/18/2015	7:54	28.5	28.5	69	0	0.0				8369.6
	12/18/2015 8:24	12/18/2015	8:24	27.5	27	69	6	11.6	173.8	19.88		8389.5
	12/18/2015 8:25	12/18/2015	8:25	32	31	69	11	22.4	17.0	1.94		8391.4
	12/18/2015 9:27	12/18/2015	9:27	32	30.5	69	12	24.4	1449.1	165.78		8557.2
	12/18/2015 10:27	12/18/2015	10:27	31	30	72	13	26.1	1513.4	173.13		8730.3
	12/18/2015 11:35	12/18/2015	11:35	30	28	74	15	29.7	1894.7	216.76		8947.1
	12/18/2015 12:28	12/18/2015	12:28	29.5	27.5	72	16	31.5	1621.9	185.54		9132.6
	12/18/2015 13:23	12/18/2015	13:23	29	27	72	16.5	32.3	1756.2	200.90		9333.5
	12/18/2015 14:18	12/18/2015	14:18	28.5	26.5	71	17	33.1	1800.6	205.99		9539.5
	12/18/2015 14:19	12/18/2015	14:19		19				33.1	3.79		9543.3
SW-157 Event 9	1/6/2016 8:00	1/6/2016	8:00	25	26	50	0	0.0				9543.3
	1/6/2016 8:28	1/6/2016	8:28	24	24	52	<2	0.0	0.0	0.00		9543.3
	1/6/2016 8:29	1/6/2016	8:29	32	31.5	52	12	24.8	12.4	1.42		9544.7
	1/6/2016 10:35	1/6/2016	10:35	32	31	60	14	28.7	3371.4	385.69		9930.4
	1/6/2016 12:07	1/6/2016	12:07	30	28	64	16	32.0	2790.8	319.26		10249.7
	1/6/2016 13:55	1/6/2016	13:55	30	27.5	63	18	36.0	3669.4	419.78		10669.5
	1/6/2016 17:14	1/6/2016	17:14	34	27.5	62	21.5	44.9	8053.4	921.31		11590.8
	1/6/2016 17:15	1/6/2016	17:15		23				44.9	5.14		11595.9
SW-157 Event 10	1/13/2016 12:42	1/13/2016	12:42	29	28.5	68	<2	0.0				11595.9
	1/13/2016 13:03	1/13/2016	13:03	27.5	27	69	4	7.7	81.1	9.28		11605.2
	1/13/2016 13:04	1/13/2016	13:04	32	31.5	69	9.5	19.3	13.5	1.55		11606.8
	1/13/2016 13:58	1/13/2016	13:58	32.5	31	70	12	24.5	1182.7	135.30		11742.1
	1/13/2016 15:29	1/13/2016	15:29	32	30	66	15	30.6	2505.8	286.67		12028.7
	1/13/2016 16:56	1/13/2016	16:56	31	29	62	17	34.4	2826.9	323.40		12352.1
	1/13/2016 16:57	1/13/2016	16:57		22				34.4	3.94		12356.1

LCP Chemicals Site, Brunswick, GA
SW-157

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
Total CO ₂ Mass (lbs):											12356.1	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-158 Event 1	10/22/2015 9:43	10/22/2015	9:43	20	20	80	0	0.0				0
	10/22/2015 10:02	10/22/2015	10:02	20	20	80	0	0.0	0.0	0.00	0.0	
	10/22/2015 10:03	10/22/2015	10:03	22	24	80	0	0.0	0.0	0.00	0.0	
	10/22/2015 10:23	10/22/2015	10:23	22	24	83	0	0.0	0.0	0.00	0.0	
	10/22/2015 10:24	10/22/2015	10:24	24	27	83	0	0.0	0.0	0.00	0.0	
	10/22/2015 10:44	10/22/2015	10:44	24	27	84	0	0.0	0.0	0.0	0.00	0.0
	10/22/2015 10:45	10/22/2015	10:45	26	29	84	0	0.0	0.0	0.0	0.00	0.0
	10/22/2015 11:12	10/22/2015	11:12	26	29	84	0	0.0	0.0	0.0	0.00	0.0
	10/22/2015 11:13	10/22/2015	11:13	28	31	84	4	7.7	3.8	0.44	0.4	
	10/22/2015 14:03	10/22/2015	14:03	28	31	82	6	11.5	1629.1	186.36	186.8	
	10/22/2015 14:04	10/22/2015	14:04	30	32	82	8	15.7	13.6	1.56	188.4	
	10/22/2015 15:00	10/22/2015	15:00	30	32	80	8	15.7	880.3	100.70	289.1	
	10/22/2015 15:50	10/22/2015	15:50	30	31	78	8	15.8	787.4	90.08	379.1	
	10/22/2015 15:51	10/22/2015	15:51	31	32	78	10	19.9	17.8	2.04	381.2	
	10/22/2015 16:58	10/22/2015	16:58	30	32	78	10	19.7	1327.7	151.89	533.1	
10/22/2015 16:59	10/22/2015	16:59		25				19.7	2.25	535.3		
SW-158 Event 2	11/21/2015 12:27	11/21/2015	12:27	25	26	78	0	0.0				535.3
	11/21/2015 13:08	11/21/2015	13:08	25	25	78	0	0.0	0.0	0.00	535.3	
	11/21/2015 13:09	11/21/2015	13:09	28	28	78	4	7.7	3.9	0.44	535.8	
	11/21/2015 14:19	11/21/2015	14:19	28	28	77	5	9.6	606.8	69.42	605.2	
	11/21/2015 15:21	11/21/2015	15:21	28	27.5	74	6	11.6	658.2	75.30	680.5	
	11/21/2015 15:25	11/21/2015	15:25	31	30.5	74	10	20.0	63.2	7.23	687.7	
	11/21/2015 16:59	11/21/2015	16:59	31	30	72	11	22.0	1976.4	226.10	913.8	
	11/21/2015 17:02	11/21/2015	17:02		20				66.1	7.57	921.4	
SW-158 Event 3	12/1/2015 7:39	12/1/2015	7:39	24	25	68	0	0.0				921.4
	12/1/2015 8:07	12/1/2015	8:07	24.5	24.5	68	0	0.0	0.0	0.00	921.4	
	12/1/2015 8:08	12/1/2015	8:08	30	30	68	4	8.0	4.0	0.46	921.8	
	12/1/2015 9:18	12/1/2015	9:18	30	29.5	70	6	11.9	695.6	79.57	1001.4	
	12/1/2015 10:53	12/1/2015	10:53	29.5	29	79	8	15.7	1309.8	149.84	1151.3	
	12/1/2015 12:07	12/1/2015	12:07	29	28.5	84	10	19.4	1296.1	148.27	1299.5	
	12/1/2015 13:57	12/1/2015	13:57	29	28	83	11	21.3	2238.3	256.06	1555.6	
	12/1/2015 15:26	12/1/2015	15:26	28.5	27.5	80	12	23.2	1981.3	226.66	1782.2	
	12/1/2015 16:50	12/1/2015	16:50	28.5	27	74	12	23.3	1954.1	223.55	2005.8	
	12/1/2015 16:51	12/1/2015	16:51		21				23.3	2.67	2008.5	
SW-158 Event 4	12/3/2015 7:40	12/3/2015	7:40	25	25	60	0	0.0				2008.5
	12/3/2015 7:59	12/3/2015	7:59	25	25	62	0	0.0	0.0	0.00	2008.5	
	12/3/2015 8:03	12/3/2015	8:03	30	30	62	5	10.0	20.0	2.29	2010.7	
	12/3/2015 10:15	12/3/2015	10:15	29.5	29	69	9	17.8	1834.5	209.87	2220.6	
	12/3/2015 10:16	12/3/2015	10:16	32	31	69	13	26.4	22.1	2.53	2223.1	
	12/3/2015 11:40	12/3/2015	11:40	32	30.5	71	15	30.4	2387.6	273.14	2496.3	
	12/3/2015 13:48	12/3/2015	13:48	32	29.5	72	17	34.4	4152.1	475.00	2971.3	
	12/3/2015 15:24	12/3/2015	15:24	31.5	29	72	18	36.3	3394.9	388.38	3359.7	
	12/3/2015 16:55	12/3/2015	16:55	31	28.5	69	19	38.2	3388.4	387.64	3747.3	
	12/3/2015 16:58	12/3/2015	16:58		21				114.6	13.11	3760.4	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-158 Event 5	12/7/2015 7:47	12/7/2015	7:47	26	26	62	0	0.0				3760.4
	12/7/2015 8:25	12/7/2015	8:25	25	24.5	62	0	0.0	0.0	0.00		3760.4
	12/7/2015 8:26	12/7/2015	8:26	30	30	62	8	16.0	8.0	0.92		3761.3
	12/7/2015 9:52	12/7/2015	9:52	30.5	30	68	9	18.0	1462.9	167.35		3928.7
	12/7/2015 10:55	12/7/2015	10:55	30	29	73	10	19.8	1191.0	136.25		4064.9
	12/7/2015 12:42	12/7/2015	12:42	30	28.5	76	12	23.7	2326.8	266.19		4331.1
	12/7/2015 14:29	12/7/2015	14:29	29	27.5	77	13	25.3	2623.7	300.15		4631.3
	12/7/2015 16:09	12/7/2015	16:09	29	27.5	74	14	27.4	2636.3	301.60		4932.9
	12/7/2015 17:00	12/7/2015	17:00	29	27	72	14.5	28.4	1422.6	162.75		5095.6
	12/7/2015 17:01	12/7/2015	17:01		21				28.4	3.25		5098.9
SW-158 Event 6	12/9/2015 7:45	12/9/2015	7:45	30	30	52	0	0.0				5098.9
	12/9/2015 8:06	12/9/2015	8:06	28	28	52	4	7.9	83.0	9.49		5108.3
	12/9/2015 8:07	12/9/2015	8:07	32	32	52	11	22.7	15.3	1.75		5110.1
	12/9/2015 9:33	12/9/2015	9:33	31	31	72	12	24.1	2012.0	230.17		5340.3
	12/9/2015 11:16	12/9/2015	11:16	30	30	78	13	25.6	2557.9	292.63		5632.9
	12/9/2015 12:43	12/9/2015	12:43	30	30	80	16	31.5	2483.2	284.07		5917.0
	12/9/2015 14:58	12/9/2015	14:58	30	30	78	16	31.5	4252.2	486.45		6403.4
	12/9/2015 16:17	12/9/2015	16:17	30	30	72	16	31.7	2498.0	285.77		6689.2
	12/9/2015 16:53	12/9/2015	16:53		20				1141.6	130.60		6819.8
	SW-158 Event 7	12/15/2015 7:44	12/15/2015	7:44	28	28	68	0	0.0			
12/15/2015 8:09		12/15/2015	8:09	27	27	69	4.5	8.6	107.9	12.35		6832.1
12/15/2015 8:10		12/15/2015	8:10	33	32	69	10	20.5	14.6	1.67		6833.8
12/15/2015 9:48		12/15/2015	9:48	33	31	76	14	28.6	2406.4	275.29		7109.1
12/15/2015 11:28		12/15/2015	11:28	32	30	80	15.5	31.2	2986.7	341.68		7450.8
12/15/2015 13:13		12/15/2015	13:13	32	29	82	17	34.1	3427.6	392.12		7842.9
12/15/2015 14:45		12/15/2015	14:45	31.5	28.5	81	18	36.0	3223.8	368.81		8211.7
12/15/2015 16:06		12/15/2015	16:06	31	28	80	18	35.8	2906.5	332.50		8544.2
12/15/2015 16:57		12/15/2015	16:57	31	27.5	75	18	36.0	1830.2	209.38		8753.6
12/15/2015 17:02		12/15/2015	17:02		21				179.9	20.58		8774.2
SW-158 Event 8	12/17/2015 7:18	12/17/2015	7:18	27.5	27.5	72	0	0.0				8774.2
	12/17/2015 7:49	12/17/2015	7:49	27	26.5	73	4	7.6	118.5	13.56		8787.7
	12/17/2015 7:50	12/17/2015	7:50	33	32.5	73	13	26.6	17.1	1.96		8789.7
	12/17/2015 9:18	12/17/2015	9:18	33.5	31	76	15	30.8	2524.3	288.79		9078.5
	12/17/2015 10:30	12/17/2015	10:30	33	30.5	79	16.5	33.6	2316.2	264.97		9343.4
	12/17/2015 11:32	12/17/2015	11:32	32.5	30	78	17	34.4	2108.2	241.18		9584.6
	12/17/2015 12:45	12/17/2015	12:45	32	29.5	78	18	36.3	2580.6	295.22		9879.8
	12/17/2015 13:30	12/17/2015	13:30	32.5	29.5	78	18.5	37.5	1659.1	189.80		10069.6
	12/17/2015 14:33	12/17/2015	14:33	32	29	77	18.5	37.3	2355.6	269.49		10339.1
	12/17/2015 15:48	12/17/2015	15:48	32	28.5	74	19.5	39.4	2878.0	329.25		10668.4
12/17/2015 15:50	12/17/2015	15:50		24.5				78.9	9.02		10677.4	
SW-158 Event 9	12/21/2015 7:27	12/21/2015	7:27	28	28.5	62	0	0.0				10677.4
	12/21/2015 7:55	12/21/2015	7:55	27	27	64	4	7.7	108.0	12.35		10689.7
	12/21/2015 7:56	12/21/2015	7:56	32	31	64	10	20.4	14.1	1.61		10691.3
	12/21/2015 9:13	12/21/2015	9:13	32	30	71	12	24.3	1723.5	197.17		10888.5
	12/21/2015 11:30	12/21/2015	11:30	31.5	29	77	16	32.1	3865.6	442.22		11330.7
	12/21/2015 12:55	12/21/2015	12:55	31	28.5	81	16.5	32.8	2757.3	315.43		11646.2
	12/21/2015 14:23	12/21/2015	14:23	30	27	73	17	33.7	2923.6	334.46		11980.6
	12/21/2015 15:07	12/21/2015	15:07	29.5	27	74	17	33.4	1476.1	168.87		12149.5
	12/21/2015 15:59	12/21/2015	15:59	29	27	72	17.5	34.3	1760.9	201.44		12350.9
	12/21/2015 16:52	12/21/2015	16:52	29	27	72	18	35.3	1843.3	210.87		12561.8

LCP Chemicals Site, Brunswick, GA
 SW-158

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	12/21/2015 16:53	12/21/2015	16:53		19					35.3	4.03	12565.8
										Total CO ₂ Mass (lbs):		12565.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-159 Event 1	10/23/2015 7:56	10/23/2015	7:56	22	23	70	0	0.0				0
	10/23/2015 8:20	10/23/2015	8:20	22	23	71	0	0.0		0.0	0.00	0.0
	10/23/2015 8:21	10/23/2015	8:21	24	24	71	3	5.5		2.8	0.32	0.3
	10/23/2015 8:39	10/23/2015	8:39	24	24	72	5	9.2		132.7	15.18	15.5
	10/23/2015 8:40	10/23/2015	8:40	26	27	72	7	13.2		11.2	1.28	16.8
	10/23/2015 9:00	10/23/2015	9:00	27	27	76	6	11.4		246.7	28.22	45.0
	10/23/2015 9:01	10/23/2015	9:01	29	29	76	7	13.7		12.5	1.44	46.4
	10/23/2015 9:29	10/23/2015	9:29	29	28	79	9.5	18.5		450.1	51.49	97.9
	10/23/2015 9:30	10/23/2015	9:30	31	30	79	12	23.9		21.2	2.42	100.4
	10/23/2015 10:30	10/23/2015	10:30	32	29	78	13.5	27.2		1532.7	175.34	275.7
	10/23/2015 11:28	10/23/2015	11:28	32	29	78	14	28.2		1606.7	183.81	459.5
	10/23/2015 12:31	10/23/2015	12:31	31	29	80	15	29.8		1828.3	209.15	668.7
	10/23/2015 12:32	10/23/2015	12:32		19					29.8	3.41	672.1
SW-159 Event 2	11/17/2015 8:45	11/17/2015	8:45	25	24	77	0	0.0				672.1
	11/17/2015 9:42	11/17/2015	9:42	25	24	83	0	0.0		0.0	0.00	672.1
	11/17/2015 9:44	11/17/2015	9:44	27	26	83	4	7.6		7.6	0.87	672.9
	11/17/2015 11:02	11/17/2015	11:02	27	25	87	5	9.4		663.2	75.87	748.8
	11/17/2015 13:06	11/17/2015	13:06	27	25	87	6	11.3		1286.4	147.16	896.0
	11/17/2015 14:27	11/17/2015	14:27	27	24.5	83	6	11.4		918.4	105.07	1001.0
	11/17/2015 15:50	11/17/2015	15:50	27	24.5	78	6.5	12.4		984.6	112.64	1113.7
	11/17/2015 16:23	11/17/2015	16:23	27	24	75	7	13.4		424.4	48.55	1162.2
	11/17/2015 16:24	11/17/2015	16:24		19					13.4	1.53	1163.7
SW-159 Event 3	11/21/2015 12:25	11/21/2015	12:25	25	26	78	0	0.0				1163.7
	11/21/2015 13:07	11/21/2015	13:07	25	25	78	<2	0.0		0.0	0.00	1163.7
	11/21/2015 13:08	11/21/2015	13:08	28	27.5	78	5	9.6		4.8	0.55	1164.3
	11/21/2015 14:18	11/21/2015	14:18	28	27	77	6.5	12.5		775.4	88.70	1253.0
	11/21/2015 15:22	11/21/2015	15:22	28	26.5	74	8	15.5		895.6	102.46	1355.5
	11/21/2015 15:24	11/21/2015	15:24	33	30	74	12	24.5		40.0	4.58	1360.0
	11/21/2015 17:00	11/21/2015	17:00	32	29	72	13	26.3		2442.1	279.37	1639.4
	11/21/2015 17:01	11/21/2015	17:01		19					26.3	3.01	1642.4
SW-159 Event 4	12/3/2015 7:42	12/3/2015	7:42	26	25	60	0	0.0				1642.4
	12/3/2015 8:01	12/3/2015	8:01	26	24	62	0	0.0		0.0	0.00	1642.4
	12/3/2015 8:02	12/3/2015	8:02	29	28	62	4	7.9		4.0	0.45	1642.9
	12/3/2015 10:12	12/3/2015	10:12	28.5	26.5	69	7	13.7		1403.4	160.54	1803.4
	12/3/2015 10:13	12/3/2015	10:13	31.5	29	69	10	20.2		16.9	1.94	1805.4
	12/3/2015 11:42	12/3/2015	11:42	31.5	28.5	71	11	22.2		1887.0	215.87	2021.2
	12/3/2015 13:49	12/3/2015	13:49	31.5	28	72	12	24.2		2944.9	336.90	2358.1
	12/3/2015 15:26	12/3/2015	15:26	31	27.5	72	13	26.1		2436.7	278.76	2636.9
	12/3/2015 16:55	12/3/2015	16:55	31	27	69	14	28.1		2411.9	275.92	2912.8
	12/3/2015 16:56	12/3/2015	16:56		19					28.1	3.22	2916.0
	SW-159 Event 5	12/8/2015 8:00	12/8/2015	8:00	30	28	60	0	0.0			
12/8/2015 8:26		12/8/2015	8:26	29	27	60	0	0.0		0.0	0.00	2916.0
12/8/2015 8:27		12/8/2015	8:27	31	29	60	4	8.1		4.1	0.46	2916.5
12/8/2015 9:32		12/8/2015	9:32	31	29	76	5	10.0		588.1	67.28	2983.8
12/8/2015 11:44		12/8/2015	11:44	30	28	80	10	19.7		1956.9	223.87	3207.6
12/8/2015 13:00		12/8/2015	13:00	30	28	82	10	19.6		1493.3	170.83	3378.5
12/8/2015 15:15		12/8/2015	15:15	29	28	78	12	23.4		2902.9	332.10	3710.6
12/8/2015 17:00		12/8/2015	17:00	29	28	70	12	23.6		2464.1	281.89	3992.4
12/8/2015 17:01		12/8/2015	17:01		20					23.6	2.70	3995.1
SW-159 Event 6	12/15/2015 7:42	12/15/2015	7:42	27.5	26	68	0	0.0				3995.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	12/15/2015 8:07	12/15/2015	8:07	26.5	24	69	0	0.0		0.0	0.00	3995.1
	12/15/2015 8:11	12/15/2015	8:11	32	29	69	5	10.2		20.3	2.33	3997.5
	12/15/2015 9:47	12/15/2015	9:47	32.5	28	76	8	16.2		1267.1	144.96	4142.4
	12/15/2015 11:30	12/15/2015	11:30	32	27.5	80	9.5	19.1		1820.0	208.21	4350.6
	12/15/2015 13:16	12/15/2015	13:16	31.5	27	82	10.5	21.0		2123.3	242.90	4593.5
	12/15/2015 13:18	12/15/2015	13:18	35	30.5	82	14	29.0		50.0	5.72	4599.3
	12/15/2015 14:47	12/15/2015	14:47	35.5	29.5	81	15.5	32.3		2727.9	312.07	4911.3
	12/15/2015 16:02	12/15/2015	16:02	35	28	80	16	33.2		2456.5	281.03	5192.3
	12/15/2015 16:59	12/15/2015	16:59	35	28	75	16	33.4		1897.3	217.05	5409.4
	12/15/2015 17:00	12/15/2015	17:00		22					33.4	3.82	5413.2
SW-159 Event 7	12/19/2015 10:37	12/19/2015	10:37	27	26	67	0	0.0				5413.2
	12/19/2015 11:19	12/19/2015	11:19	26	23	67	0	0.0		0.0	0.00	5413.2
	12/19/2015 11:21	12/19/2015	11:21	33	29	67	7	14.4		14.4	1.65	5414.9
	12/19/2015 12:48	12/19/2015	12:48	33	28.5	71	9	18.5		1429.5	163.54	5578.4
	12/19/2015 13:40	12/19/2015	13:40	32	27.5	72	10	20.3		1006.7	115.16	5693.6
	12/19/2015 14:59	12/19/2015	14:59	31	27	71	11	22.1		1672.2	191.30	5884.9
	12/19/2015 15:42	12/19/2015	15:42	32	27	70	11.5	23.3		976.5	111.71	5996.6
	12/19/2015 17:02	12/19/2015	17:02	31.5	26.5	67	12.5	25.3		1946.6	222.70	6219.3
	12/19/2015 17:03	12/19/2015	17:03		21					25.3	2.90	6222.2
	SW-159 Event 8	12/22/2015 7:27	12/22/2015	7:27	29	28	72	0	0.0			
12/22/2015 8:00		12/22/2015	8:00	29	26	72	<2	0.0		0.0	0.00	6222.2
12/22/2015 8:01		12/22/2015	8:01	32	28.5	72	6	12.2		6.1	0.70	6222.9
12/22/2015 10:31		12/22/2015	10:31	32	28	76	8	16.1		2123.1	242.88	6465.7
12/22/2015 10:53		12/22/2015	10:53	32	28	76	8	16.1		355.3	40.64	6506.4
12/22/2015 10:55		12/22/2015	10:55		23					32.3	3.69	6510.1
SW-159 Event 9	1/5/2016 7:27	1/5/2016	7:27	27	25	47	0	0.0				6510.1
	1/5/2016 7:52	1/5/2016	7:52	27.5	23.5	49	0	0.0		0.0	0.00	6510.1
	1/5/2016 7:53	1/5/2016	7:53	32	28.5	49	7	14.5		7.3	0.83	6510.9
	1/5/2016 9:27	1/5/2016	9:27	32	28.5	56	8	16.5		1456.3	166.60	6677.5
	1/5/2016 11:15	1/5/2016	11:15	32	28	62	9.5	19.4		1939.3	221.85	6899.4
	1/5/2016 12:46	1/5/2016	12:46	31	27	63	10	20.2		1804.7	206.45	7105.8
	1/5/2016 14:06	1/5/2016	14:06	31	27	60	11.5	23.3		1741.8	199.26	7305.1
	1/5/2016 15:33	1/5/2016	15:33	30.5	26.5	58	12	24.3		2069.5	236.75	7541.8
	1/5/2016 17:07	1/5/2016	17:07	30.5	26	57	12.5	25.3		2328.2	266.35	7808.2
	1/5/2016 17:08	1/5/2016	17:08		21					25.3	2.89	7811.1
SW-159 Event 10	1/12/2016 7:35	1/12/2016	7:35	28	27	40	0	0.0				7811.1
	1/12/2016 8:03	1/12/2016	8:03	28	25	44	<2	0.0		0.0	0.00	7811.1
	1/12/2016 8:04	1/12/2016	8:04	34	31.5	44	8	17.0		8.5	0.97	7812.0
	1/12/2016 10:13	1/12/2016	10:13	34	30	67	9.5	19.8		2373.3	271.51	8083.5
	1/12/2016 11:34	1/12/2016	11:34	33.5	29	69	10.5	21.7		1678.6	192.04	8275.6
	1/12/2016 12:45	1/12/2016	12:45	33.5	28.5	70	11.5	23.7		1612.2	184.43	8460.0
	1/12/2016 14:28	1/12/2016	14:28	33.5	28	70	12.5	25.8		2550.2	291.74	8751.8
	1/12/2016 16:03	1/12/2016	16:03	33.5	27.5	69	13.5	27.9		2549.4	291.65	9043.4
	1/12/2016 17:01	1/12/2016	17:01	33.5	27	66	14	29.0		1649.5	188.71	9232.1
	1/12/2016 17:03	1/12/2016	17:03		22					58.0	6.64	9238.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-159 Event 11	1/26/2016 8:52	1/26/2016	8:52	29	28	60	0	0.0			9238.8
	1/26/2016 9:53	1/26/2016	9:53	29	26.5	64	3	5.9	180.7	20.67	9259.4
	1/26/2016 9:54	1/26/2016	9:54	33.5	31.5	64	9	18.7	12.3	1.41	9260.8
	1/26/2016 12:09	1/26/2016	12:09	34	30	72	9.5	19.7	2588.3	296.10	9556.9
	1/26/2016 14:18	1/26/2016	14:18	33.5	29.5	72	11	22.7	2729.5	312.25	9869.2
	1/26/2016 15:52	1/26/2016	15:52	33.5	29	70	12	24.8	2228.3	254.92	10124.1
	1/26/2016 17:12	1/26/2016	17:12	33.5	28	65	12.5	25.9	2027.1	231.90	10356.0
	1/26/2016 17:13	1/26/2016	17:13		22.5				25.9	2.97	10359.0
SW-159 Event 12	2/4/2016 7:33	2/4/2016	7:33	27	26	70	0	0.0			10359.0
	2/4/2016 7:47	2/4/2016	7:47	27	26	70	<2	0.0	0.0	0.00	10359.0
	2/4/2016 7:48	2/4/2016	7:48	31	29	70	7.5	15.1	7.5	0.86	10359.8
	2/4/2016 11:24	2/4/2016	11:24	33	28	65	10.5	21.7	3965.5	453.66	10813.5
	2/4/2016 14:29	2/4/2016	14:29	33	27.5	64	12	24.8	4294.8	491.33	11304.8
	2/4/2016 15:24	2/4/2016	15:24	33	27	62	13	26.9	1420.8	162.54	11467.4
	2/4/2016 16:55	2/4/2016	16:55	33	26.5	60	13.5	28.0	2496.8	285.63	11753.0
	2/4/2016 16:56	2/4/2016	16:56		21.5				28.0	3.20	11756.2
SW-159 Event 13	2/8/2016 7:27	2/8/2016	7:27	29	28	47	0	0.0			11756.2
	2/8/2016 8:04	2/8/2016	8:04	28	27	54	4	7.9	145.9	16.69	11772.9
	2/8/2016 8:05	2/8/2016	8:05	35	31.5	54	9.5	20.2	14.1	1.61	11774.5
	2/8/2016 9:18	2/8/2016	9:18	35	31.5	63	10	21.1	1508.6	172.58	11947.1
	2/8/2016 11:00	2/8/2016	11:00	34	30	68	11.5	23.9	2295.0	262.55	12209.6
	2/8/2016 11:01	2/8/2016	11:01		24				23.9	2.73	12212.4
Total CO ₂ Mass (lbs):											12212.4

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-160 Event 1	10/22/2015 12:33	10/22/2015	12:33	11	12	90	0	0.0				0
	10/22/2015 12:40	10/22/2015	12:40	15	16	90	0	0.0		0.0	0.00	0.0
	10/22/2015 12:47	10/22/2015	12:47	18	20	90	0	0.0		0.0	0.00	0.0
	10/22/2015 12:55	10/22/2015	12:55	20	23	90	0	0.0		0.0	0.00	0.0
	10/22/2015 13:00	10/22/2015	13:00	22	24.5	90	0	0.0		0.0	0.00	0.0
	10/22/2015 13:07	10/22/2015	13:07	24	26	91	0	0.0		0.0	0.00	0.0
	10/22/2015 13:12	10/22/2015	13:12	26	28	91	0	0.0		0.0	0.00	0.0
	10/22/2015 13:18	10/22/2015	13:18	28	30	91	<2	0.0		0.0	0.00	0.0
	10/22/2015 13:23	10/22/2015	13:23	30	32	91	4	7.8		19.5	2.23	2.2
	10/22/2015 14:39	10/22/2015	14:39	31	31	85	6	11.9		747.2	85.48	87.7
	10/22/2015 15:39	10/22/2015	15:39	31	31	80	6	11.9		714.3	81.72	169.4
	10/22/2015 16:20	10/22/2015	16:20	31	31	78	6	12.0		489.7	56.03	225.4
	10/22/2015 17:13	10/22/2015	17:13	31	31	80	6	11.9		633.1	72.42	297.9
10/22/2015 17:14	10/22/2015	17:14		26					11.9	1.37	299.2	
SW-160 Event 2	11/17/2015 8:04	11/17/2015	8:04	26	26	70	0	0.0				299.2
	11/17/2015 8:55	11/17/2015	8:55	25	25	74	0	0.0		0.0	0.00	299.2
	11/17/2015 8:59	11/17/2015	8:59	28	27.5	74	<2	0.0		0.0	0.00	299.2
	11/17/2015 11:11	11/17/2015	11:11	28	27.5	83	3	5.7		379.4	43.40	342.6
	11/17/2015 12:55	11/17/2015	12:55	28	27.5	84	4	7.7		697.1	79.75	422.4
	11/17/2015 14:16	11/17/2015	14:16	28	27.5	82	4	7.7		620.8	71.02	493.4
	11/17/2015 15:42	11/17/2015	15:42	28	27	79	4	7.7		660.7	75.59	569.0
	11/17/2015 16:11	11/17/2015	16:11	28	27	75	4	7.7		223.6	25.57	594.6
	11/17/2015 16:12	11/17/2015	16:12		24					7.7	0.88	595.5
SW-160 Event 3	11/19/2015 7:51	11/19/2015	7:51	28	28	74	0	0.0				595.5
	11/19/2015 8:16	11/19/2015	8:16	28	26	74	<2	0.0		0.0	0.00	595.5
	11/19/2015 8:17	11/19/2015	8:17	32	30	74	8	16.2		8.1	0.93	596.4
	11/19/2015 9:28	11/19/2015	9:28	32	31.5	74	5.5	11.1		969.3	110.89	707.3
	11/19/2015 10:56	11/19/2015	10:56	32	31.5	76	6	12.1		1022.4	116.96	824.2
	11/19/2015 12:37	11/19/2015	12:37	32	30	77	7	14.1		1324.5	151.53	975.8
	11/19/2015 13:27	11/19/2015	13:27	32	30	77	7	14.1		705.8	80.75	1056.5
	11/19/2015 15:54	11/19/2015	15:54	32	29.5	75	8	16.2		2225.7	254.62	1311.1
	11/19/2015 15:55	11/19/2015	15:55		25					16.2	1.85	1313.0
SW-160 Event 4	1/13/2016 8:11	1/13/2016	8:11	27	26	41	0	0.0				1313.0
	1/13/2016 8:30	1/13/2016	8:30	25.5	25	46	0	0.0		0.0	0.00	1313.0
	1/13/2016 8:31	1/13/2016	8:31	33	32.5	46	7.5	15.8		7.9	0.90	1313.9
	1/13/2016 10:03	1/13/2016	10:03	33	32	59	7.5	15.6		1441.2	164.87	1478.7
	1/13/2016 11:37	1/13/2016	11:37	32.5	31.5	64	8.5	17.5		1551.8	177.52	1656.3
	1/13/2016 14:06	1/13/2016	14:06	32.5	30.5	64	10	20.5		2830.3	323.78	1980.0
	1/13/2016 15:35	1/13/2016	15:35	32.5	30.5	63	10.5	21.6		1874.3	214.42	2194.5
	1/13/2016 17:12	1/13/2016	17:12	32	30	60	11.5	23.6		2190.5	250.59	2445.1
	1/13/2016 17:13	1/13/2016	17:13		24.5					23.6	2.70	2447.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-160 Event 5	1/28/2016 7:19	1/28/2016	7:19	27.5	27	59	0	0.0				2447.7
	1/28/2016 7:37	1/28/2016	7:37	27	26	60	0	0.0	0.0	0.00		2447.7
	1/28/2016 7:38	1/28/2016	7:38	33	32.5	60	7	14.5	7.3	0.83		2448.6
	1/28/2016 9:40	1/28/2016	9:40	33.5	32	61	9	18.7	2027.9	232.00		2680.6
	1/28/2016 11:39	1/28/2016	11:39	33	31	62	10	20.7	2345.6	268.34		2948.9
	1/28/2016 14:05	1/28/2016	14:05	32	30.5	64	10.5	21.4	3075.6	351.85		3300.8
	1/28/2016 15:14	1/28/2016	15:14	32	30	62	11	22.5	1516.5	173.49		3474.3
	1/28/2016 17:07	1/28/2016	17:07	32	29.5	60	11.5	23.6	2604.3	297.93		3772.2
	1/29/2016 7:28	1/29/2016	7:28	30	27.5	53	15.5	31.3	23628.3	2703.08		6475.3
1/29/2016 7:31	1/29/2016	7:31		23				93.9	10.74		6486.0	
SW-160 Event 6	2/1/2016 7:55	2/1/2016	7:55	26	26	50	0	0.0				6486.0
	2/1/2016 8:09	2/1/2016	8:09	25.5	23.5	54	3	5.7	40.1	4.59		6490.6
	2/1/2016 8:10	2/1/2016	8:10	35	32	54	13	27.7	16.7	1.91		6492.5
	2/1/2016 9:37	2/1/2016	9:37	34	31.5	65	15.5	32.3	2609.5	298.53		6791.0
	2/1/2016 11:16	2/1/2016	11:16	33.5	30.5	71	15.5	31.9	3180.7	363.87		7154.9
	2/1/2016 12:38	2/1/2016	12:38	33.5	30	72	16	32.9	2660.8	304.39		7459.3
	2/1/2016 14:10	2/1/2016	14:10	33	29.5	75	16	32.7	3018.8	345.35		7804.7
	2/1/2016 15:42	2/1/2016	15:42	33	29.5	72	16.5	33.8	3057.9	349.83		8154.5
	2/1/2016 17:02	2/1/2016	17:02	32	29	70	16.5	33.5	2692.0	307.96		8462.4
	2/1/2016 17:03	2/1/2016	17:03		24				33.5	3.83		8466.3
	SW-160 Event 7	2/4/2016 7:27	2/4/2016	7:27	29.5	28	70	0	0.0			
2/4/2016 7:42		2/4/2016	7:42	27.5	26.5	70	4.5	8.7	65.1	7.45		8473.7
2/4/2016 7:44		2/4/2016	7:44	35	33	70	11	23.1	31.7	3.63		8477.4
2/4/2016 11:11		2/4/2016	11:11	32.5	29	64	15	30.8	5574.0	637.66		9115.0
2/4/2016 14:16		2/4/2016	14:16	32.5	28.5	63	16	32.9	5891.5	673.98		9789.0
2/4/2016 15:37		2/4/2016	15:37	32	28	62	16.5	33.8	2699.6	308.83		10097.8
2/4/2016 16:59		2/4/2016	16:59	31	28	58	17	34.5	2800.9	320.42		10418.3
2/4/2016 17:00		2/4/2016	17:00		24				34.5	3.95		10422.2
SW-160 Event 8	2/16/2016 7:24	2/16/2016	7:24	29	28	60	0	0.0				10422.2
	2/16/2016 7:54	2/16/2016	7:54	27.5	26	61	4	7.8	116.7	13.36		10435.6
	2/16/2016 7:57	2/16/2016	7:57	36	34	61	14	29.9	56.5	6.47		10442.0
	2/16/2016 9:15	2/16/2016	9:15	36.5	33.5	64	16	34.2	2501.7	286.19		10728.2
	2/16/2016 11:02	2/16/2016	11:02	36.5	32.5	67	17.5	37.3	3829.8	438.13		11166.4
	2/16/2016 12:24	2/16/2016	12:24	36	32	70	18	38.1	3093.3	353.88		11520.2
	2/16/2016 15:13	2/16/2016	15:13	35.5	31	71	19	40.0	6598.3	754.84		12275.1
	2/16/2016 16:11	2/16/2016	16:11	35.5	30.5	71	19.5	41.0	2349.4	268.77		12543.8
	2/16/2016 17:01	2/16/2016	17:01	35	30	70	20	41.9	2073.6	237.22		12781.1
	2/16/2016 17:06	2/16/2016	17:06		24				209.6	23.97		12805.0
Total CO ₂ Mass (lbs):											12805.0	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-161 Event 1	11/11/2015 12:42	11/11/2015	12:42	24	24	88	0	0.0				0
	11/11/2015 12:45	11/11/2015	12:45	26	26	88	0	0.0	0.0	0.00	0.0	
	11/11/2015 12:51	11/11/2015	12:51	28	27.5	89	0	0.0	0.0	0.00	0.0	
	11/11/2015 12:56	11/11/2015	12:56	30	29	89	<2	0.0	0.0	0.00	0.0	
	11/11/2015 13:00	11/11/2015	13:00	32	31	89	4	8.0	16.0	1.82	1.8	
	11/11/2015 15:00	11/11/2015	15:00	32	30	86	4	8.0	958.4	109.64	111.5	
	11/11/2015 15:02	11/11/2015	15:02	34	32	86	7	14.3	22.3	2.55	114.0	
	11/11/2015 16:08	11/11/2015	16:08	34	32	81	7	14.4	945.8	108.20	222.2	
	11/11/2015 17:10	11/11/2015	17:10	34	32	74	7	14.5	893.6	102.23	324.4	
11/11/2015 17:13	11/11/2015	17:13		24				43.4	4.96	329.4		
SW-161 Event 2	11/16/2015 8:07	11/16/2015	8:07	28	27	65	0	0.0				329.4
	11/16/2015 8:36	11/16/2015	8:36	27	26	70	0	0.0	0.0	0.00	329.4	
	11/16/2015 8:39	11/16/2015	8:39	33	32.5	70	7	14.4	21.5	2.47	331.9	
	11/16/2015 10:00	11/16/2015	10:00	33.5	33	76	6.5	13.3	1121.8	128.34	460.2	
	11/16/2015 10:52	11/16/2015	10:52	33.5	32.5	78	7	14.3	719.3	82.28	542.5	
	11/16/2015 12:16	11/16/2015	12:16	33	32	79	7.5	15.3	1242.8	142.17	684.7	
	11/16/2015 14:37	11/16/2015	14:37	33	32	79	8	16.3	2223.2	254.34	939.0	
	11/16/2015 17:28	11/16/2015	17:28	34	31.5	70	9.5	19.7	3076.3	351.93	1290.9	
	11/16/2015 17:29	11/16/2015	17:29		27				19.7	2.25	1293.2	
SW-161 Event 3	1/8/2016 7:54	1/8/2016	7:54	28	26	58	0	0.0				1293.2
	1/8/2016 8:26	1/8/2016	8:26	27	26	59	0	0.0	0.0	0.00	1293.2	
	1/8/2016 8:27	1/8/2016	8:27	34	32	59	10	21.0	10.5	1.20	1294.4	
	1/8/2016 9:55	1/8/2016	9:55	33.5	30.5	62	11.5	23.9	1974.9	225.93	1520.3	
	1/8/2016 11:22	1/8/2016	11:22	33.5	30	65	13	27.0	2212.9	253.15	1773.5	
	1/8/2016 13:29	1/8/2016	13:29	33	28.5	67	14	28.8	3541.6	405.16	2178.6	
	1/8/2016 14:47	1/8/2016	14:47	32.5	28.5	67	14	28.7	2241.8	256.46	2435.1	
	1/8/2016 16:02	1/8/2016	16:02	32.5	28.5	66	14.5	29.7	2189.3	250.46	2685.5	
	1/8/2016 17:13	1/8/2016	17:13	32.5	28.5	64	14.5	29.8	2112.0	241.61	2927.2	
1/8/2016 17:14	1/8/2016	17:14		23.5				29.8	3.41	2930.6		
SW-161 Event 4	1/11/2016 7:54	1/11/2016	7:54	27	26	39	0	0.0				2930.6
	1/11/2016 8:21	1/11/2016	8:21	26	23	47	6.5	12.6	170.0	19.45	2950.0	
	1/11/2016 8:22	1/11/2016	8:22	33	28.5	47	16	33.6	23.1	2.64	2952.7	
	1/11/2016 10:07	1/11/2016	10:07	33	28	58	16	33.2	3508.8	401.41	3354.1	
	1/11/2016 11:47	1/11/2016	11:47	33	28	62	16	33.1	3316.5	379.40	3733.5	
	1/11/2016 13:47	1/11/2016	13:47	32.5	28	66	16	32.8	3953.4	452.27	4185.7	
	1/11/2016 15:15	1/11/2016	15:15	32.5	28	67	16	32.8	2884.2	329.95	4515.7	
	1/11/2016 17:07	1/11/2016	17:07	32.5	28	64	16	32.9	3674.5	420.36	4936.1	
	1/11/2016 17:09	1/11/2016	17:09		23.5				65.7	7.52	4943.6	
SW-161 Event 5	1/19/2016 7:36	1/19/2016	7:36	27	28	34	0	0.0				4943.6
	1/19/2016 8:04	1/19/2016	8:04	26.5	26	40	5	9.8	137.5	15.72	4959.3	
	1/19/2016 8:05	1/19/2016	8:05	33	30.5	40	12	25.4	17.6	2.01	4961.3	
	1/19/2016 9:47	1/19/2016	9:47	34	30	52	12	25.3	2587.1	295.96	5257.3	
	1/19/2016 11:36	1/19/2016	11:36	33	30	57	13	27.0	2854.1	326.50	5583.8	
	1/19/2016 14:03	1/19/2016	14:03	32	29.5	60	14.5	29.7	4171.9	477.27	6061.0	
	1/19/2016 16:07	1/19/2016	16:07	32	29	61	15	30.7	3748.6	428.84	6489.9	
	1/19/2016 17:09	1/19/2016	17:09	31.5	29	60	15.5	31.6	1932.5	221.08	6711.0	
	1/19/2016 17:10	1/19/2016	17:10		26				31.6	3.62	6714.6	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-161 Event 6	1/25/2016 7:55	1/25/2016	7:55	28	27	38	0	0.0				6714.6
	1/25/2016 8:23	1/25/2016	8:23	27.5	24	39	7	13.9	195.0	22.31	6736.9	
	1/25/2016 8:24	1/25/2016	8:24	33	29	39	14	29.6	21.8	2.49	6739.4	
	1/25/2016 9:26	1/25/2016	9:26	33	28.5	55	15.5	32.3	1920.1	219.66	6959.0	
	1/25/2016 11:03	1/25/2016	11:03	33	28	61	15.5	32.1	3122.7	357.24	7316.3	
	1/25/2016 12:19	1/25/2016	12:19	33	28	64	15.5	32.0	2435.7	278.64	7594.9	
	1/25/2016 14:07	1/25/2016	14:07	33	28	66	16	33.0	3508.2	401.34	7996.3	
	1/25/2016 15:19	1/25/2016	15:19	32.5	27.5	63	16	32.9	2370.8	271.22	8267.5	
	1/25/2016 16:08	1/25/2016	16:08	32.5	27.5	60	16	33.0	1614.0	184.64	8452.1	
	1/25/2016 16:13	1/25/2016	16:13		23.5				164.9	18.87	8471.0	
SW-161 Event 7	2/4/2016 7:29	2/4/2016	7:29	29	28	70	<2	0.0				8471.0
	2/4/2016 7:42	2/4/2016	7:42	28	26	70	6	11.6	75.7	8.66	8479.6	
	2/4/2016 7:46	2/4/2016	7:46	36	33.5	70	14	29.6	82.6	9.44	8489.1	
	2/4/2016 11:13	2/4/2016	11:13	35	30.5	64	19	40.1	7213.0	825.17	9314.3	
	2/4/2016 14:18	2/4/2016	14:18	34.5	30	63	19.5	40.9	7491.7	857.05	10171.3	
	2/4/2016 15:36	2/4/2016	15:36	34	29	62	20	41.8	3227.2	369.19	10540.5	
	2/4/2016 17:00	2/4/2016	17:00	34	29	58	20.5	43.0	3563.3	407.64	10948.1	
	2/4/2016 17:01	2/4/2016	17:01		24				43.0	4.92	10953.1	
	SW-161 Event 8	2/8/2016 7:47	2/8/2016	7:47	29	29	47	4.5	9.0			
2/8/2016 8:18		2/8/2016	8:18	29	26.5	51	10	20.0	450.2	51.50	11004.6	
2/8/2016 8:19		2/8/2016	8:19	36	33.5	51	18	38.8	29.4	3.37	11007.9	
2/8/2016 9:29		2/8/2016	9:29	38	33	58	20	43.7	2888.8	330.48	11338.4	
2/8/2016 10:52		2/8/2016	10:52	38	33	62	21	45.7	3710.1	424.44	11762.8	
2/8/2016 11:59		2/8/2016	11:59	37.5	32.5	65	21.5	46.4	3086.1	353.06	12115.9	
2/8/2016 13:04		2/8/2016	13:04	37.5	32.5	66	21.5	46.4	3016.0	345.03	12460.9	
2/8/2016 14:19		2/8/2016	14:19	37.5	32.5	66	21.5	46.4	3478.3	397.92	12858.8	
2/8/2016 15:55		2/8/2016	15:55	37.2	32	66	22	47.3	4497.3	514.49	13373.3	
2/8/2016 17:12		2/8/2016	17:12	37	32	64	22	47.3	3643.4	416.81	13790.1	
2/8/2016 17:13		2/8/2016	17:13		26				47.3	5.41	13795.6	
SW-161 Event 9	2/9/2016 7:33	2/9/2016	7:33	29.5	30	39	<2	0.0				13795.6
	2/9/2016 7:47	2/9/2016	7:47	28	26.5	42	8.5	17.0	118.7	13.58	13809.1	
	2/9/2016 7:48	2/9/2016	7:48	37	34	42	15	33.0	25.0	2.86	13812.0	
	2/9/2016 9:14	2/9/2016	9:14	37	32	50	19	41.4	3201.0	366.20	14178.2	
	2/9/2016 11:23	2/9/2016	11:23	37	31.5	53	21	45.7	5619.1	642.83	14821.0	
	2/9/2016 13:11	2/9/2016	13:11	37	31.5	56	22	47.7	5042.0	576.80	15397.8	
	2/9/2016 15:00	2/9/2016	15:00	37	31.5	58	22	47.6	5194.0	594.19	15992.0	
	2/9/2016 16:19	2/9/2016	16:19	37	31	58	22.5	48.7	3803.4	435.11	16427.1	
	2/9/2016 16:20	2/9/2016	16:20		26				48.7	5.57	16432.7	
SW-161 Event 10	2/18/2016 7:37	2/18/2016	7:37	31	30.5	49	4	8.2				16432.7
	2/18/2016 7:59	2/18/2016	7:59	29	27	52	9.5	19.0	299.1	34.22	16466.9	
	2/18/2016 8:00	2/18/2016	8:00	33	30.5	52	15	31.3	25.2	2.88	16469.8	
	2/18/2016 9:13	2/18/2016	9:13	34	30.5	60	16	33.5	2367.4	270.83	16740.6	
	2/18/2016 10:47	2/18/2016	10:47	34	30	64	16.5	34.4	3193.3	365.31	17105.9	
	2/18/2016 12:27	2/18/2016	12:27	34	30	67	17.5	36.4	3541.5	405.15	17511.1	
	2/18/2016 13:18	2/18/2016	13:18	34	30	67	17.5	36.4	1856.6	212.40	17723.5	
	2/18/2016 14:35	2/18/2016	14:35	34	29.5	68	18	37.4	2841.7	325.09	18048.6	
	2/18/2016 17:06	2/18/2016	17:06	33	28.5	65	18	37.1	5627.2	643.75	18692.3	
	2/18/2016 17:07	2/18/2016	17:07		25				37.1	4.25	18696.6	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
<u>SW-161 Event 11</u>	2/23/2016 7:35	2/23/2016	7:35	30.5	29	66	<2	0.0			18696.6
	2/23/2016 7:52	2/23/2016	7:52	29.5	27	66	7	13.9	117.9	13.49	18710.0
	2/23/2016 7:54	2/23/2016	7:54	36	33.5	66	15	31.9	45.8	5.23	18715.3
	2/23/2016 9:04	2/23/2016	9:04	37	33	67	19	40.7	2541.8	290.79	19006.1
	2/23/2016 11:29	2/23/2016	11:29	37	32	73	21	44.8	6199.6	709.23	19715.3
	2/23/2016 13:31	2/23/2016	13:31	36.5	32	76	22	46.5	5569.3	637.13	20352.4
	2/23/2016 14:59	2/23/2016	14:59	36	31	72	22	46.5	4092.6	468.20	20820.6
	2/23/2016 15:54	2/23/2016	15:54	36	30.5	74	22	46.4	2554.0	292.18	21112.8
	2/23/2016 16:55	2/23/2016	16:55	36	30	70	22	46.6	2835.4	324.37	21437.2
	2/23/2016 16:56	2/23/2016	16:56		23				46.6	5.33	21442.5
Total CO ₂ Mass (lbs):											21442.5

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-162 Event 1	10/28/2015 9:22	10/28/2015	9:22	22	23	75	0	0.0				0
	10/28/2015 9:28	10/28/2015	9:28	24	26	75	0	0.0	0.0	0.00	0.0	
	10/28/2015 9:33	10/28/2015	9:33	26	28	76	0	0.0	0.0	0.00	0.0	
	10/28/2015 9:39	10/28/2015	9:39	28	29.5	76	0	0.0	0.0	0.00	0.0	
	10/28/2015 9:44	10/28/2015	9:44	30	31	76	<2	0.0	0.0	0.00	0.0	
	10/28/2015 9:49	10/28/2015	9:49	32	32.5	76	4	8.1	20.2	2.31	2.3	
	10/28/2015 10:22	10/28/2015	10:22	32	33	77	4.5	9.1	283.0	32.37	34.7	
	10/28/2015 10:24	10/28/2015	10:24		24				18.1	2.08	36.8	
SW-162 Event 2	11/12/2015 8:09	11/12/2015	8:09	22	22	68	0	0.0				36.8
	11/12/2015 8:14	11/12/2015	8:14	24	24	68	0	0.0	0.0	0.00	36.8	
	11/12/2015 8:18	11/12/2015	8:18	26	26	68	0	0.0	0.0	0.00	36.8	
	11/12/2015 8:23	11/12/2015	8:23	28	27	68	0	0.0	0.0	0.00	36.8	
	11/12/2015 8:27	11/12/2015	8:27	30	30	69	0	0.0	0.0	0.00	36.8	
	11/12/2015 8:38	11/12/2015	8:38	32	31	70	0	0.0	0.0	0.00	36.8	
	11/12/2015 9:36	11/12/2015	9:36	32	30	82	5	10.0	291.0	33.29	70.0	
	11/12/2015 10:35	11/12/2015	10:35	32	30	85	5.5	11.0	620.7	71.01	141.1	
	11/12/2015 11:33	11/12/2015	11:33	32	30	88	6	12.0	666.4	76.24	217.3	
	11/12/2015 12:12	11/12/2015	12:12	32	30	90	6	12.0	466.5	53.37	270.7	
	11/12/2015 13:59	11/12/2015	13:59	32	30	92	6	11.9	1277.6	146.16	416.8	
	11/12/2015 14:42	11/12/2015	14:42	32	29.5	93	6	11.9	512.7	58.65	475.5	
	11/12/2015 15:59	11/12/2015	15:59	32	29.5	94	6	11.9	917.2	104.93	580.4	
	11/12/2015 17:08	11/12/2015	17:08	32	29.5	86	6	12.0	824.7	94.34	674.8	
	11/12/2015 17:10	11/12/2015	17:10		25				24.0	2.74	677.5	
SW-162 Event 3	11/19/2015 7:50	11/19/2015	7:50	28	28.5	74	0	0.0				677.5
	11/19/2015 8:16	11/19/2015	8:16	28	27.5	74	0	0.0	0.0	0.00	677.5	
	11/19/2015 8:18	11/19/2015	8:18	32	30.5	74	8	16.2	16.2	1.85	679.4	
	11/19/2015 9:30	11/19/2015	9:30	32	30.5	74	6	12.1	1019.4	116.61	796.0	
	11/19/2015 10:55	11/19/2015	10:55	32	30.5	76	6.5	13.1	1073.4	122.80	918.8	
	11/19/2015 12:36	11/19/2015	12:36	33	29.5	77	8	16.3	1486.1	170.01	1088.8	
	11/19/2015 13:28	11/19/2015	13:28	32	29	77	8	16.1	843.5	96.49	1185.3	
	11/19/2015 15:56	11/19/2015	15:56	32	28.5	75	10	20.2	2689.1	307.63	1492.9	
	11/19/2015 15:57	11/19/2015	15:57		25				20.2	2.31	1495.2	
SW-162 Event 4	12/7/2015 8:07	12/7/2015	8:07	27	26	60	0	0.0				1495.2
	12/7/2015 8:39	12/7/2015	8:39	26.5	25	61	0	0.0	0.0	0.00	1495.2	
	12/7/2015 8:42	12/7/2015	8:42	31	29.5	61	5	10.1	15.2	1.74	1497.0	
	12/7/2015 9:59	12/7/2015	9:59	31.5	29.5	65	5	10.1	780.7	89.31	1586.3	
	12/7/2015 11:11	12/7/2015	11:11	31.5	29.5	69	5	10.1	729.1	83.41	1669.7	
	12/7/2015 11:14	12/7/2015	11:14	33	32	69	8	16.4	39.8	4.55	1674.2	
	12/7/2015 12:50	12/7/2015	12:50	33.5	31.5	73	8	16.5	1578.9	180.62	1854.8	
	12/7/2015 14:39	12/7/2015	14:39	33.5	31.5	74	8	16.4	1793.0	205.12	2060.0	
	12/7/2015 16:14	12/7/2015	16:14	33	30.5	74	8	16.4	1557.9	178.22	2238.2	
	12/7/2015 17:15	12/7/2015	17:15	33	31	69	10	20.5	1125.4	128.75	2366.9	
	12/8/2015 8:13	12/8/2015	8:13	31.5	27.5	64	16	32.5	23817.0	2724.67	5091.6	
	12/8/2015 8:14	12/8/2015	8:14		23				32.5	3.72	5095.3	

SW-162 Event 5	12/17/2015 7:35	12/17/2015 7:35	29	28	72	0	0.0			5095.3	
	12/17/2015 8:08	12/17/2015 8:08	28	26	73	3	5.8	95.8	10.96	5106.3	
	12/17/2015 8:10	12/17/2015 8:10	33	30.5	73	8.5	17.4	23.2	2.65	5108.9	
	12/17/2015 9:30	12/17/2015 9:30	33.5	30.5	76	10	20.5	1516.3	173.46	5282.4	
	12/17/2015 10:40	12/17/2015 10:40	33.5	30.5	78	11	22.5	1506.1	172.30	5454.7	
	12/17/2015 11:40	12/17/2015 11:40	33	30	78	12	24.4	1408.7	161.16	5615.9	
	12/17/2015 12:53	12/17/2015 12:53	33	30	79	12.5	25.4	1820.2	208.24	5824.1	
	12/17/2015 13:37	12/17/2015 13:37	33	30	79	12.5	25.4	1119.0	128.01	5952.1	
	12/17/2015 14:36	12/17/2015 14:36	33	29	76	13	26.5	1532.7	175.35	6127.5	
	12/17/2015 15:55	12/17/2015 15:55	32	29	74	13	26.3	2086.3	238.68	6366.1	
	12/17/2015 15:56	12/17/2015 15:56		24				26.3	3.01	6369.1	
SW-162 Event 6	1/7/2016 7:56	1/7/2016 7:56	28	27	56	0	0.0			6369.1	
	1/7/2016 8:33	1/7/2016 8:33	27	25	55	0	0.0	0.0	0.00	6369.1	
	1/7/2016 8:35	1/7/2016 8:35	34	32	55	8	16.8	16.8	1.93	6371.1	
	1/7/2016 10:26	1/7/2016 10:26	34	31	60	9	18.9	1981.1	226.64	6597.7	
	1/7/2016 11:47	1/7/2016 11:47	33.5	30	62	10	20.8	1605.8	183.70	6781.4	
	1/7/2016 14:33	1/7/2016 14:33	32	29	64	11.5	23.5	3675.6	420.49	7201.9	
	1/7/2016 15:33	1/7/2016 15:33	32	28	63	12	24.5	1440.6	164.81	7366.7	
	1/7/2016 17:07	1/7/2016 17:07	32	28	62	12	24.6	2307.3	263.95	7630.7	
		1/7/2016 17:13	1/7/2016 17:13		23				147.3	16.86	7647.5
	SW-162 Event 7	1/12/2016 7:52	1/12/2016 7:52	29	29	37	0	0.0			7647.5
1/12/2016 8:18		1/12/2016 8:18	28	25	44	4	8.0	103.6	11.85	7659.4	
1/12/2016 8:22		1/12/2016 8:22	33	32	44	10	21.1	58.1	6.64	7666.0	
1/12/2016 10:04		1/12/2016 10:04	33	29.5	60	12	24.9	2343.0	268.04	7934.0	
1/12/2016 11:25		1/12/2016 11:25	33	28.5	63	13.5	27.9	2137.3	244.50	8178.5	
1/12/2016 12:36		1/12/2016 12:36	32	28.5	66	13.5	27.5	1967.3	225.06	8403.6	
1/12/2016 14:50		1/12/2016 14:50	31.5	28.5	67	13.5	27.3	3675.6	420.49	8824.1	
1/12/2016 16:12		1/12/2016 16:12	31	27.5	65	14	28.3	2279.4	260.76	9084.9	
1/12/2016 17:13		1/12/2016 17:13	31	27.5	63	14	28.3	1725.2	197.36	9282.2	
		1/12/2016 17:15	1/12/2016 17:15		22				56.6	6.48	9288.7
SW-162 Event 8	1/18/2016 8:19	1/18/2016 8:19	28	25	45	0	0.0			9288.7	
	1/18/2016 9:01	1/18/2016 9:01	26.5	23.5	52	4	7.8	162.9	18.64	9307.3	
	1/18/2016 9:02	1/18/2016 9:02	34	29.5	52	14	29.6	18.7	2.13	9309.5	
	1/18/2016 10:34	1/18/2016 10:34	34	29.5	58	13.5	28.3	2663.4	304.69	9614.2	
	1/18/2016 11:56	1/18/2016 11:56	34	29.5	61	14	29.3	2363.0	270.32	9884.5	
	1/18/2016 13:57	1/18/2016 13:57	33.5	28.5	64	15	31.1	3656.0	418.25	10302.7	
	1/18/2016 15:35	1/18/2016 15:35	36	28.5	64	15.5	33.0	3142.9	359.55	10662.3	
	1/18/2016 17:07	1/18/2016 17:07	33	28	61	16	33.1	3042.4	348.05	11010.3	
		1/18/2016 17:13	1/18/2016 17:13		22				198.8	22.74	11033.1
	SW-162 Event 9	1/21/2016 7:46	1/21/2016 7:46	28	26	50	0	0.0			11033.1
1/21/2016 7:54		1/21/2016 7:54	28	25	51	0	0.0	0.0	0.00	11033.1	
1/21/2016 7:55		1/21/2016 7:55	35	31	51	12	25.6	12.8	1.47	11034.5	
1/21/2016 9:11		1/21/2016 9:11	34.5	30	62	13.5	28.4	2052.0	234.75	11269.3	
1/21/2016 12:53		1/21/2016 12:53	34	28.5	62	17	35.5	7093.9	811.55	12080.8	
1/21/2016 15:13		1/21/2016 15:13	33.5	29	62	17.5	36.4	5035.3	576.04	12656.9	
1/21/2016 16:55		1/21/2016 16:55	33.5	28.5	61	18	37.5	3767.1	430.95	13087.8	
		1/21/2016 16:58	1/21/2016 16:58		23				112.4	12.86	13100.7

SW-162 Event 10	1/26/2016 8:15	1/26/2016 8:15	30	27	54	0	0.0			13100.7
	1/26/2016 9:40	1/26/2016 9:40	28	25	60	5.5	10.8	458.0	52.40	13153.1
	1/26/2016 9:42	1/26/2016 9:42	34	31.5	60	15	31.4	42.2	4.83	13157.9
	1/26/2016 12:02	1/26/2016 12:02	34.5	30.5	67	14	29.3	4248.7	486.05	13644.0
	1/26/2016 14:05	1/26/2016 14:05	34	29	68	14.5	30.1	3653.6	417.97	14061.9
	1/26/2016 15:44	1/26/2016 15:44	34	29	67	15.5	32.2	3087.7	353.23	14415.2
	1/26/2016 16:59	1/26/2016 16:59	33	27.5	64	16	33.0	2447.9	280.03	14695.2
	1/26/2016 17:00	1/26/2016 17:00		23.5				33.0	3.78	14699.0
	SW-162 Event 11	2/3/2016 7:22	2/3/2016 7:22	29	28.5	70	0	0.0		
	2/3/2016 7:43	2/3/2016 7:43	28.5	26	70	4.5	8.8	92.2	10.55	14709.5
	2/3/2016 7:44	2/3/2016 7:44	35	33	70	12	25.1	17.0	1.94	14711.5
	2/3/2016 9:30	2/3/2016 9:30	34.5	32.5	70	13.5	28.1	2824.6	323.13	15034.6
	2/3/2016 11:07	2/3/2016 11:07	34	31	74	14.5	30.0	2818.0	322.38	15357.0
	2/3/2016 12:30	2/3/2016 12:30	33.5	30.5	73	15.5	31.9	2566.5	293.61	15650.6
	2/3/2016 14:22	2/3/2016 14:22	33	29	79	16	32.6	3608.6	412.83	16063.4
	2/3/2016 15:19	2/3/2016 15:19	33	29	79	16	32.6	1855.5	212.27	16275.7
	2/3/2016 16:14	2/3/2016 16:14	32.5	28.5	75	16.5	33.5	1817.0	207.86	16483.6
	2/3/2016 16:15	2/3/2016 16:15		24				33.5	3.83	16487.4
SW-162 Event 12	2/9/2016 7:45	2/9/2016 7:45	30	28	47	4	8.1			16487.4
	2/9/2016 8:05	2/9/2016 8:05	30	28	50	6.5	13.2	213.0	24.36	16511.7
	2/9/2016 8:06	2/9/2016 8:06	37	34	50	12	26.2	19.7	2.25	16514.0
	2/9/2016 9:24	2/9/2016 9:24	37	33	54	15	32.6	2291.9	262.19	16776.2
	2/9/2016 11:42	2/9/2016 11:42	36	32	58	17	36.4	4761.6	544.73	17320.9
	2/9/2016 13:39	2/9/2016 13:39	36	32	60	18	38.5	4382.0	501.30	17822.2
	2/9/2016 15:29	2/9/2016 15:29	35	31.5	61	18.5	39.1	4268.1	488.27	18310.5
	2/9/2016 17:08	2/9/2016 17:08	35	30	60	19	40.2	3926.8	449.23	18759.7
	2/9/2016 17:09	2/9/2016 17:09		25				40.2	4.60	18764.3
SW-162 Event 13	2/25/2016 7:26	2/25/2016 7:26	30	29	51	0	0.0			18764.3
	2/25/2016 7:37	2/25/2016 7:37	30	27.5	52	4	8.1	44.5	5.09	18769.4
	2/25/2016 7:38	2/25/2016 7:38	37	34.5	52	11	23.9	16.0	1.83	18771.2
	2/25/2016 8:42	2/25/2016 8:42	36.5	33.5	59	14	30.1	1729.9	197.90	18969.1
	2/25/2016 10:23	2/25/2016 10:23	36	32	63	15	32.0	3135.4	358.70	19327.8
	2/25/2016 11:29	2/25/2016 11:29	36	32	65	18	38.3	2318.9	265.28	19593.1
	2/25/2016 12:45	2/25/2016 12:45	35	31.5	66	18.5	38.9	2934.2	335.67	19928.8
	2/25/2016 14:05	2/25/2016 14:05	35	30.5	68	19.5	40.9	3194.7	365.47	20294.3
	2/25/2016 15:00	2/25/2016 15:00	35	30	68	20	42.0	2280.9	260.93	20555.2
	2/25/2016 15:01	2/25/2016 15:01		23				42.0	4.80	20560.0
Total CO ₂ Mass (lbs):										20560.0

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-163 Event 1	10/22/2015 12:15	10/22/2015	12:15	21	22	89	0	0.0			0
	10/22/2015 12:28	10/22/2015	12:28	21	22	89	0	0.0	0.0	0.00	0.0
	10/22/2015 12:29	10/22/2015	12:29	23	23.5	89	0	0.0	0.0	0.00	0.0
	10/22/2015 12:52	10/22/2015	12:52	23	23.5	88	3	5.4	61.8	7.07	7.1
	10/22/2015 12:53	10/22/2015	12:53	25	26	88	6	11.0	8.2	0.94	8.0
	10/22/2015 13:19	10/22/2015	13:19	25	25	84	6.5	12.0	299.3	34.24	42.2
	10/22/2015 13:20	10/22/2015	13:20	27	27	84	10	18.9	15.5	1.77	44.0
	10/22/2015 14:08	10/22/2015	14:08	27	27	81	10	19.0	909.2	104.02	148.0
	10/22/2015 15:02	10/22/2015	15:02	27	27	80	10	19.0	1024.8	117.24	265.3
	10/22/2015 17:02	10/22/2015	17:02	27	26	78	11.5	21.9	2451.9	280.49	545.8
10/22/2015 17:03	10/22/2015	17:03		21				21.9	2.50	548.3	
SW-163 Event 2	11/21/2015 12:37	11/21/2015	12:37	26	27	78	0	0.0			548.3
	11/21/2015 13:12	11/21/2015	13:12	25.5	25.5	78	0	0.0	0.0	0.00	548.3
	11/21/2015 13:16	11/21/2015	13:16	30	30	78	7	13.8	27.6	3.16	551.4
	11/21/2015 14:24	11/21/2015	14:24	30	29.5	75	8	15.8	1006.5	115.14	666.6
	11/21/2015 15:29	11/21/2015	15:29	29	28.5	72	9.5	18.6	1118.8	127.99	794.6
	11/21/2015 15:33	11/21/2015	15:33	32	30.5	72	14	28.4	94.0	10.75	805.3
	11/21/2015 17:07	11/21/2015	17:07	32	30	71	14.5	29.4	2715.8	310.69	1116.0
	11/21/2015 17:11	11/21/2015	17:11		23				117.6	13.46	1129.4
SW-163 Event 3	12/2/2015 8:07	12/2/2015	8:07	26.5	27	67	0	0.0			1129.4
	12/2/2015 9:07	12/2/2015	9:07	25.5	26.5	71	0	0.0	0.0	0.00	1129.4
	12/2/2015 9:11	12/2/2015	9:11	30	29.5	71	7	13.9	27.8	3.18	1132.6
	12/2/2015 11:31	12/2/2015	11:31	29	28	81	10	19.4	2331.8	266.76	1399.4
	12/2/2015 12:48	12/2/2015	12:48	28.5	27.5	81	12	23.2	1640.1	187.62	1587.0
	12/2/2015 14:13	12/2/2015	14:13	27.5	27	85	12	22.8	1954.5	223.60	1810.6
	12/2/2015 15:45	12/2/2015	15:45	27.5	26.5	72	12	23.1	2112.0	241.62	2052.2
	12/2/2015 17:02	12/2/2015	17:02	27	26	72	12	23.0	1773.3	202.87	2255.1
	12/2/2015 17:03	12/2/2015	17:03		21				23.0	2.63	2257.7
	SW-163 Event 4	12/4/2015 7:49	12/4/2015	7:49	27	27	56	0	0.0		
12/4/2015 8:15		12/4/2015	8:15	26	26	58	4	7.7	99.6	11.40	2269.1
12/4/2015 8:18		12/4/2015	8:18	32	31	58	11	22.6	45.4	5.19	2274.3
12/4/2015 9:24		12/4/2015	9:24	32	29.5	65	13.5	27.5	1654.9	189.32	2463.6
12/4/2015 10:44		12/4/2015	10:44	30.5	28	68	14	28.0	2222.4	254.24	2717.9
12/4/2015 12:10		12/4/2015	12:10	31	28.5	70	16	32.1	2586.2	295.87	3013.7
12/4/2015 12:11		12/4/2015	12:11		22				32.1	3.68	3017.4
SW-163 Event 5	12/7/2015 7:59	12/7/2015	7:59	26	27	59	0	0.0			3017.4
	12/7/2015 8:31	12/7/2015	8:31	25.5	25.5	61	<2	0.0	0.0	0.00	3017.4
	12/7/2015 8:35	12/7/2015	8:35	30	29.5	61	8	16.0	32.1	3.67	3021.1
	12/7/2015 9:53	12/7/2015	9:53	30	29	66	8	15.9	1247.1	142.67	3163.7
	12/7/2015 11:02	12/7/2015	11:02	29.5	28.5	70	9.5	18.8	1197.4	136.98	3300.7
	12/7/2015 11:03	12/7/2015	11:03	32	31	70	14	28.4	23.6	2.70	3303.4
	12/7/2015 12:44	12/7/2015	12:44	32	30	74	15	30.3	2967.6	339.49	3642.9
	12/7/2015 14:33	12/7/2015	14:33	31.5	29	75	16	32.2	3405.7	389.62	4032.5
	12/7/2015 16:11	12/7/2015	16:11	31	28.5	73	17	34.0	3243.5	371.05	4403.6
	12/7/2015 17:06	12/7/2015	17:06	30.5	28	68	18	36.0	1926.6	220.40	4624.0
	12/7/2015 17:07	12/7/2015	17:07		22				36.0	4.12	4628.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-163 Event 6	12/10/2015 7:40	12/10/2015	7:40	29	29	60	<2	0.0				4628.1
	12/10/2015 8:18	12/10/2015	8:18	27.5	27.5	64	4	7.8		147.4	16.87	4645.0
	12/10/2015 8:19	12/10/2015	8:19	32	31.5	64	12	24.5		16.1	1.85	4646.8
	12/10/2015 9:22	12/10/2015	9:22	32.5	31	72	12	24.4		1542.2	176.43	4823.2
	12/10/2015 10:28	12/10/2015	10:28	32.5	30	76	13.5	27.4		1711.0	195.74	5019.0
	12/10/2015 11:27	12/10/2015	11:27	31.5	29.5	78	14.5	29.1		1665.4	190.52	5209.5
	12/10/2015 12:18	12/10/2015	12:18	31	29	78	15.5	30.9		1528.5	174.86	5384.4
	12/10/2015 13:15	12/10/2015	13:15	31	28.5	78	16	31.9		1789.0	204.66	5589.0
	12/10/2015 14:30	12/10/2015	14:30	31	28	78	16.5	32.9		2428.6	277.84	5866.9
	12/10/2015 15:30	12/10/2015	15:30	30.5	27.5	76	17.5	34.7		2028.8	232.09	6098.9
	12/10/2015 16:42	12/10/2015	16:42	30.5	27	69	18	36.0		2546.2	291.29	6390.2
	12/10/2015 16:47	12/10/2015	16:47		22					179.9	20.58	6410.8
	SW-163 Event 7	12/16/2015 7:37	12/16/2015	7:37	28	28	68	0	0.0			
12/16/2015 8:16		12/16/2015	8:16	27.5	27.5	68	4.5	8.7		169.6	19.40	6430.2
12/16/2015 8:19		12/16/2015	8:19	33	32.5	68	12	24.7		50.1	5.73	6435.9
12/16/2015 9:23		12/16/2015	9:23	33	31.5	70	12.5	25.7		1610.6	184.25	6620.2
12/16/2015 11:00		12/16/2015	11:00	31	29.5	74	14	28.0		2602.5	297.73	6917.9
12/16/2015 12:29		12/16/2015	12:29	30	28	75	14.5	28.7		2521.4	288.45	7206.4
12/16/2015 14:36		12/16/2015	14:36	29.5	27	74	16	31.5		3817.9	436.77	7643.1
12/16/2015 15:57		12/16/2015	15:57	31.5	27.5	72	18.5	37.3		2784.6	318.56	7961.7
12/16/2015 17:07		12/16/2015	17:07	32	28	71	20	40.6		2724.9	311.73	8273.4
12/16/2015 17:11		12/16/2015	17:11		22.5					162.3	18.56	8292.0
SW-163 Event 8	1/7/2016 8:07	1/7/2016	8:07	28	29	53	0	0.0				8292.0
	1/7/2016 8:42	1/7/2016	8:42	27	27	55	4	7.8		136.2	15.58	8307.6
	1/7/2016 8:44	1/7/2016	8:44	33	32	55	11	22.9		30.7	3.51	8311.1
	1/7/2016 10:30	1/7/2016	10:30	33	31.5	62	14	29.0		2749.4	314.54	8625.6
	1/7/2016 11:52	1/7/2016	11:52	32.5	30	63	16	32.9		2535.8	290.10	8915.7
	1/7/2016 14:37	1/7/2016	14:37	31.5	28	64	19	38.6		5897.4	674.66	9590.4
	1/7/2016 15:28	1/7/2016	15:28	31.5	27.5	63	19.5	39.6		1995.2	228.25	9818.6
	1/7/2016 17:01	1/7/2016	17:01	31	27	63	20	40.4		3724.3	426.06	10244.7
	1/7/2016 17:03	1/7/2016	17:03		22.5					80.9	9.25	10253.9
SW-163 Event 9	1/13/2016 8:07	1/13/2016	8:07	27	27	42	5	9.9				10253.9
	1/13/2016 8:18	1/13/2016	8:18	26.5	26	47	7	13.6		129.3	14.79	10268.7
	1/13/2016 8:19	1/13/2016	8:19	33	31	47	14	29.4		21.5	2.46	10271.2
	1/13/2016 9:59	1/13/2016	9:59	32	29.5	61	18	36.9		3313.9	379.11	10650.3
	1/13/2016 11:28	1/13/2016	11:28	32	28.5	66	19	38.7		3364.3	384.88	11035.2
	1/13/2016 14:02	1/13/2016	14:02	31	27.5	67	20.5	41.3		6161.5	704.88	11740.1
	1/13/2016 15:32	1/13/2016	15:32	31	27	64	21	42.4		3767.0	430.95	12171.0
	1/13/2016 17:02	1/13/2016	17:02	30.5	26.5	60	22	44.4		3905.7	446.81	12617.8
	1/13/2016 17:03	1/13/2016	17:03		21					44.4	5.08	12622.9
Total CO ₂ Mass (lbs):											12622.9	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-164 Event 1	11/12/2015 8:16	11/12/2015	8:16	24	24	68	0	0.0				0
	11/12/2015 8:21	11/12/2015	8:21	26	27	68	0	0.0	0.0	0.00	0.0	0.0
	11/12/2015 8:25	11/12/2015	8:25	28	26	69	0	0.0	0.0	0.00	0.0	0.0
	11/12/2015 8:30	11/12/2015	8:30	30	20	69	0	0.0	0.0	0.00	0.00	0.0
	11/12/2015 8:35	11/12/2015	8:35		13				0.0	0.00	0.0	0.0
SW-164 Event 2	11/24/2015 7:18	11/24/2015	7:18	19	19	48	0	0.0				0.0
	11/24/2015 7:45	11/24/2015	7:45	19.5	20	51	0	0.0	0.0	0.00	0.00	0.0
	11/24/2015 7:46	11/24/2015	7:46	22	24	51	0	0.0	0.0	0.00	0.00	0.0
	11/24/2015 7:52	11/24/2015	7:52	25	26	51	0	0.0	0.0	0.00	0.00	0.0
	11/24/2015 8:05	11/24/2015	8:05	24.5	24	56	5	9.4	61.2	7.00	7.0	7.0
	11/24/2015 8:06	11/24/2015	8:06	27	27	56	7	13.6	11.5	1.32	8.3	8.3
	11/24/2015 8:51	11/24/2015	8:51	26	25	63	13	24.8	863.8	98.82	107.1	107.1
	11/24/2015 10:31	11/24/2015	10:31	26	24	67	14	26.6	2568.8	293.87	401.0	401.0
	11/24/2015 10:32	11/24/2015	10:32	28	25	67	14	27.2	26.9	3.08	404.1	404.1
	11/24/2015 11:32	11/24/2015	11:32	25.5	24	70	14	26.3	1607.7	183.92	588.0	588.0
	11/24/2015 11:37	11/24/2015	11:37		16				131.7	15.07	603.1	603.1
SW-164 Event 3	11/30/2015 12:07	11/30/2015	12:07	27	27	93	0	0.0				603.1
	11/30/2015 12:42	11/30/2015	12:42	25	24.5	90	7	12.8	224.8	25.71	628.8	628.8
	11/30/2015 12:46	11/30/2015	12:46	30	28	90	13	25.3	76.3	8.73	637.5	637.5
	11/30/2015 14:39	11/30/2015	14:39	30	27	82	16	31.4	3205.5	366.71	1004.2	1004.2
	11/30/2015 15:56	11/30/2015	15:56	30	26.5	78	17.5	34.5	2536.8	290.21	1294.4	1294.4
	11/30/2015 17:02	11/30/2015	17:02	29	26	72	18	35.3	2301.8	263.33	1557.8	1557.8
	11/30/2015 17:03	11/30/2015	17:03		19				35.3	4.03	1561.8	1561.8
SW-164 Event 4	12/9/2015 7:29	12/9/2015	7:29	27	28	55	0	0.0				1561.8
	12/9/2015 8:07	12/9/2015	8:07	27.5	27	58	0	0.0	0.0	0.00	1561.8	1561.8
	12/9/2015 8:08	12/9/2015	8:08	34	33.5	58	10	21.0	10.5	1.20	1563.0	1563.0
	12/9/2015 9:09	12/9/2015	9:09	33	31	68	14	28.8	1518.3	173.69	1736.7	1736.7
	12/9/2015 10:18	12/9/2015	10:18	32	30	72	15.5	31.4	2076.9	237.60	1974.3	1974.3
	12/9/2015 11:38	12/9/2015	11:38	31	28.5	77	16	31.9	2533.0	289.77	2264.1	2264.1
	12/9/2015 12:45	12/9/2015	12:45	33	29.5	78	18.5	37.7	2331.2	266.69	2530.8	2530.8
	12/9/2015 14:06	12/9/2015	14:06	32.5	29	73	20	40.7	3174.6	363.17	2893.9	2893.9
	12/9/2015 15:09	12/9/2015	15:09	32.5	28.5	76	20	40.6	2561.0	292.97	3186.9	3186.9
	12/9/2015 16:45	12/9/2015	16:45	32.5	28	72	20.5	41.8	3953.2	452.25	3639.2	3639.2
	12/9/2015 16:47	12/9/2015	16:47		21				83.5	9.56	3648.7	3648.7
	SW-164 Event 5	12/17/2015 7:24	12/17/2015	7:24	28.5	29	72	0	0.0			
12/17/2015 7:55		12/17/2015	7:55	26	25	72	10	18.9	292.9	33.51	3682.2	3682.2
12/17/2015 8:03		12/17/2015	8:03	29	26	72	18	35.3	216.7	24.79	3707.0	3707.0
12/17/2015 9:25		12/17/2015	9:25	29	24.5	75	22	43.0	3208.2	367.02	4074.0	4074.0
12/17/2015 10:35		12/17/2015	10:35	29	24	78	22	42.9	3004.3	343.69	4417.7	4417.7
12/17/2015 11:35		12/17/2015	11:35	28.5	23	77	23	44.6	2623.3	300.11	4717.8	4717.8
12/17/2015 12:49		12/17/2015	12:49	28.5	23	77	24	46.5	3371.2	385.66	5103.5	5103.5
12/17/2015 13:34		12/17/2015	13:34	28.5	23	77	24	46.5	2093.7	239.51	5343.0	5343.0
12/17/2015 14:34		12/17/2015	14:34	28.5	23	75	24	46.6	2794.2	319.66	5662.7	5662.7
12/17/2015 15:52		12/17/2015	15:52	28.5	23	72	24	46.8	3641.3	416.56	6079.2	6079.2
12/17/2015 15:54		12/17/2015	15:54		18				93.5	10.70	6089.9	6089.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-164 Event 6	12/19/2015 10:42	12/19/2015	10:42	27	27	64	<2	0.0			6089.9
	12/19/2015 11:24	12/19/2015	11:24	25	24	65	12	22.5	473.5	54.17	6144.1
	12/19/2015 11:25	12/19/2015	11:25	34	30	65	21	43.8	33.2	3.79	6147.9
	12/19/2015 12:51	12/19/2015	12:51	31	25	69	24.5	49.2	3999.9	457.59	6605.5
	12/19/2015 13:42	12/19/2015	13:42	30	24.5	68	24.5	48.7	2498.9	285.88	6891.4
	12/19/2015 14:56	12/19/2015	14:56	29	23	70	24.5	48.1	3583.3	409.93	7301.3
	12/19/2015 15:44	12/19/2015	15:44	28	22.5	69	24.5	47.6	2296.3	262.70	7564.0
	12/19/2015 17:07	12/19/2015	17:07	30.5	23	64	24.5	49.2	4017.2	459.57	8023.6
	12/19/2015 17:08	12/19/2015	17:08		17				49.2	5.63	8029.2
SW-164 Event 7	12/22/2015 7:33	12/22/2015	7:33	28	29	71	3	5.8			8029.2
	12/22/2015 8:03	12/22/2015	8:03	26.5	25	70	12	22.9	430.2	49.21	8078.4
	12/22/2015 8:04	12/22/2015	8:04	33	27	70	18	36.9	29.9	3.42	8081.8
	12/22/2015 10:25	12/22/2015	10:25	29.5	24	73	24	47.3	5935.6	679.03	8760.9
	12/22/2015 10:58	12/22/2015	10:58	29.5	24	73	24	47.3	1559.3	178.38	8939.2
	12/22/2015 10:59	12/22/2015	10:59		18				47.3	5.41	8944.6
SW-164 Event 8	1/5/2016 7:29	1/5/2016	7:29	25.5	26.5	42	0	0.0			8944.6
	1/5/2016 7:55	1/5/2016	7:55	24.5	25.5	47	0	0.0	0.0	0.00	8944.6
	1/5/2016 7:56	1/5/2016	7:56	32	31.5	47	9	18.7	9.3	1.07	8945.7
	1/5/2016 9:30	1/5/2016	9:30	32	31	56	12	24.7	2040.1	233.38	9179.1
	1/5/2016 11:18	1/5/2016	11:18	30	28.5	60	15.5	31.1	3012.7	344.65	9523.7
	1/5/2016 12:51	1/5/2016	12:51	31	27	60	16.5	33.5	3001.6	343.38	9867.1
	1/5/2016 14:09	1/5/2016	14:09	31	26.5	58	17.5	35.6	2692.1	307.98	10175.1
	1/5/2016 15:37	1/5/2016	15:37	31	25.5	56	18	36.7	3177.5	363.51	10538.6
	1/5/2016 17:18	1/5/2016	17:18	30	25	54	18	36.3	3685.0	421.56	10960.2
	1/5/2016 17:19	1/5/2016	17:19		23				36.3	4.15	10964.3
SW-164 Event 9	1/14/2016 7:40	1/14/2016	7:40	30	30	42	0	0.0			10964.3
	1/14/2016 8:02	1/14/2016	8:02	27	26.5	50	10	19.6	215.1	24.61	10988.9
	1/14/2016 8:03	1/14/2016	8:03	34	31.5	50	15	31.7	25.6	2.93	10991.9
	1/14/2016 9:14	1/14/2016	9:14	31	27.5	60	20	40.6	2566.8	293.64	11285.5
	1/14/2016 11:22	1/14/2016	11:22	30.5	25	65	23.5	47.2	5614.4	642.28	11927.8
	1/14/2016 13:08	1/14/2016	13:08	30	24.5	64	24	47.9	5040.4	576.63	12504.4
	1/14/2016 14:24	1/14/2016	14:24	30	24.5	62	24	48.0	3647.1	417.23	12921.7
	1/14/2016 16:07	1/14/2016	16:07	30	24	60	24.5	49.1	5004.3	572.49	13494.1
	1/14/2016 16:08	1/14/2016	16:08		18				49.1	5.62	13499.8
	Total CO ₂ Mass (lbs):										

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psi)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cumulative Mass (lb)
SW-165 Event 1	10/20/2015 10:15	10/20/2015	10:15	10	13	75	0	0.0				0
	10/20/2015 10:25	10/20/2015	10:25	10	13	76	0	0.0		0.0	0.00	0.0
	10/20/2015 10:26	10/20/2015	10:26	20	23.5	76	0	0.0		0.0	0.00	0.0
	10/20/2015 13:42	10/20/2015	13:42	21	23	80	0	0.0		0.0	0.00	0.0
	10/20/2015 13:44	10/20/2015	13:44	26	27.5	80	3	5.6		5.6	0.64	0.6
	10/20/2015 17:32	10/20/2015	17:32	26	27	76	6	11.3		1929.2	220.70	221.3
	10/20/2015 17:33	10/20/2015	17:33	28	29	76	10	19.3		15.3	1.75	223.1
	10/20/2015 17:44	10/20/2015	17:44		24					212.2	24.27	247.4
SW-165 Event 2	11/16/2015 7:40	11/16/2015	7:40	27	27	68	0	0.0				247.4
	11/16/2015 8:16	11/16/2015	8:16	27	25.5	71	0	0.0		0.0	0.00	247.4
	11/16/2015 8:18	11/16/2015	8:18	33	32	71	7	14.4		14.4	1.64	249.0
	11/16/2015 9:44	11/16/2015	9:44	33	30.5	78	10	20.4		1492.9	170.78	419.8
	11/16/2015 9:47	11/16/2015	9:47	36	33	78	14	29.4		74.7	8.54	428.3
	11/16/2015 10:47	11/16/2015	10:47	36	32.5	81	14	29.3		1761.9	201.56	629.9
	11/16/2015 12:08	11/16/2015	12:08	36	32	81	16	33.5		2544.8	291.12	921.0
	11/16/2015 14:22	11/16/2015	14:22	36	31	80	18	37.7		4773.6	546.10	1467.1
	11/16/2015 16:07	11/16/2015	16:07	35	30	75	20	41.7		4170.9	477.15	1944.3
	11/16/2015 16:56	11/16/2015	16:56	35	30	74	20	41.7		2044.7	233.92	2178.2
	11/16/2015 16:58	11/16/2015	16:58		23					83.5	9.55	2187.7
SW-165 Event 3	11/20/2015 7:46	11/20/2015	7:46	27	27	66	0	0.0				2187.7
	11/20/2015 8:11	11/20/2015	8:11	26.5	26.5	69	4	7.6		95.4	10.91	2198.6
	11/20/2015 8:12	11/20/2015	8:12	29.5	29.5	69	8	15.8		11.7	1.34	2200.0
	11/20/2015 9:30	11/20/2015	9:30	29.5	29	75	10	19.6		1383.0	158.21	2358.2
	11/20/2015 11:04	11/20/2015	11:04	29.5	28.5	80	12	23.5		2026.5	231.83	2590.0
	11/20/2015 11:07	11/20/2015	11:07	32	31	80	16	32.2		83.5	9.55	2599.6
	11/20/2015 13:01	11/20/2015	13:01	32.5	30.5	79	18	36.4		3910.2	447.33	3046.9
	11/20/2015 14:59	11/20/2015	14:59	32	30	77	19	38.3		4409.8	504.49	3551.4
	11/20/2015 17:04	11/20/2015	17:04	31.5	28.5	73	20	40.3		4911.6	561.89	4113.3
11/20/2015 17:05	11/20/2015	17:05		22					40.3	4.61	4117.9	
SW-165 Event 4	11/24/2015 7:13	11/24/2015	7:13	24.5	24.5	52	0	0.0				4117.9
	11/24/2015 7:40	11/24/2015	7:40	23	23	54	3	5.6		74.9	8.57	4126.5
	11/24/2015 7:42	11/24/2015	7:42	27	26.5	54	7	13.6		19.2	2.19	4128.7
	11/24/2015 8:48	11/24/2015	8:48	27	26.5	66	8.5	16.4		989.8	113.23	4241.9
	11/24/2015 10:32	11/24/2015	10:32	27	26	70	10.5	20.1		1897.4	217.06	4458.9
	11/24/2015 11:24	11/24/2015	11:24	27	25.5	72	11	21.0		1070.6	122.48	4581.4
	11/24/2015 11:30	11/24/2015	11:30		21					126.3	14.45	4595.9
SW-165 Event 5	11/30/2015 12:04	11/30/2015	12:04	24.5	25	92	0	0.0				4595.9
	11/30/2015 12:34	11/30/2015	12:34	23.5	23.5	90	<2	0.0		0.0	0.00	4595.9
	11/30/2015 12:38	11/30/2015	12:38	28	28	90	9	17.1		34.3	3.92	4599.8
	11/30/2015 14:33	11/30/2015	14:33	27.5	27.5	84	11	20.9		2188.7	250.39	4850.2
	11/30/2015 15:47	11/30/2015	15:47	28	27	80	12	23.1		1627.7	186.21	5036.4
	11/30/2015 16:54	11/30/2015	16:54	28	26.5	75	13	25.1		1613.4	184.57	5221.0
	11/30/2015 16:56	11/30/2015	16:56		22					50.2	5.74	5226.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psi)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cumulative Mass (lb)
SW-165 Event 6	12/4/2015 7:44	12/4/2015	7:44	26	27	58	0	0.0				5226.7
	12/4/2015 8:03	12/4/2015	8:03	25.5	25	60	4	7.6		72.2	8.26	5235.0
	12/4/2015 8:04	12/4/2015	8:04	30	30	60	10	20.1		13.8	1.58	5236.6
	12/4/2015 9:19	12/4/2015	9:19	30	29	67	12	23.9		1648.3	188.57	5425.1
	12/4/2015 10:40	12/4/2015	10:40	29	28	70	13.5	26.5		2041.3	233.53	5658.6
	12/4/2015 12:06	12/4/2015	12:06	29	27.5	70	15.5	30.4		2448.1	280.06	5938.7
	12/4/2015 12:07	12/4/2015	12:07		22					30.4	3.48	5942.2
SW-165 Event 7	12/10/2015 7:46	12/10/2015	7:46	34	34	52	4	8.4				5942.2
	12/10/2015 8:09	12/10/2015	8:09	32	32	52	10	20.7		334.9	38.31	5980.5
	12/10/2015 9:40	12/10/2015	9:40	31	31	72	14	28.1		2217.3	253.66	6234.2
	12/10/2015 10:45	12/10/2015	10:45	31	31	76	14	28.0		1820.4	208.25	6442.4
	12/10/2015 11:44	12/10/2015	11:44	30	30	78	16	31.5		1754.7	200.73	6643.1
	12/10/2015 13:23	12/10/2015	13:23	32	32	78	21	42.3		3654.9	418.13	7061.3
	12/10/2015 15:13	12/10/2015	15:13	32	32	78	21	42.3		4654.0	532.42	7593.7
	12/10/2015 16:48	12/10/2015	16:48		22					4019.4	459.82	8053.5
SW-165 Event 8	1/7/2016 12:27	1/7/2016	12:27	28	27	66	0	0.0				8053.5
	1/7/2016 12:44	1/7/2016	12:44	27	27	66	3	5.8		49.1	5.61	8059.1
	1/7/2016 12:45	1/7/2016	12:45	33	32.5	66	10	20.6		13.2	1.51	8060.6
	1/7/2016 14:11	1/7/2016	14:11	33	31.5	66	13	26.8		2037.8	233.12	8293.7
	1/7/2016 15:18	1/7/2016	15:18	32.5	30.5	68	15	30.7		1925.2	220.24	8514.0
	1/7/2016 16:55	1/7/2016	16:55	31.5	29.5	65	17.5	35.5		3210.4	367.27	8881.3
	1/7/2016 16:56	1/7/2016	16:56		23.5					35.5	4.06	8885.3
SW-165 Event 9	1/28/2016 7:27	1/28/2016	7:27	30	27.5	62	0	0.0				8885.3
	1/28/2016 7:47	1/28/2016	7:47	28	26.5	62	5.5	10.8		107.6	12.30	8897.6
	1/28/2016 7:48	1/28/2016	7:48	32	29	62	12	24.6		17.7	2.02	8899.6
	1/28/2016 9:51	1/28/2016	9:51	33.5	28.5	63	12.5	26.0		3107.4	355.49	9255.1
	1/28/2016 11:51	1/28/2016	11:51	32	27	64	14.5	29.6		3335.1	381.53	9636.7
	1/28/2016 14:16	1/28/2016	14:16	31.5	26	66	15.5	31.4		4425.3	506.25	10142.9
	1/28/2016 15:24	1/28/2016	15:24	31	25	64	16	32.3		2167.3	247.94	10390.9
	1/28/2016 16:56	1/28/2016	16:56	31	25	61	16	32.4		2978.0	340.69	10731.5
	1/28/2016 16:57	1/28/2016	16:57		21					32.4	3.71	10735.3
SW-165 Event 10	2/1/2016 7:50	2/1/2016	7:50	29	27.5	55	0	0.0				10735.3
	2/1/2016 8:22	2/1/2016	8:22	26.5	26.5	60	7	13.5		215.5	24.65	10759.9
	2/1/2016 8:23	2/1/2016	8:23	32	31	60	14	28.7		21.1	2.41	10762.3
	2/1/2016 9:29	2/1/2016	9:29	32.5	30.5	70	16	32.7		2025.2	231.69	10994.0
	2/1/2016 11:07	2/1/2016	11:07	31.5	29	76	18	36.1		3371.2	385.66	11379.7
	2/1/2016 12:27	2/1/2016	12:27	31	28	77	19	37.9		2961.4	338.79	11718.5
	2/1/2016 13:54	2/1/2016	13:54	31	27.5	77	20	39.9		3383.9	387.12	12105.6
	2/1/2016 15:34	2/1/2016	15:34	30.5	27.5	76	21	41.7		4079.4	466.68	12572.3
	2/1/2016 16:50	2/1/2016	16:50	30	27	71	22	43.6		3242.9	370.99	12943.3
	2/1/2016 16:51	2/1/2016	16:51		21					43.6	4.99	12948.2
	Total CO ₂ Mass (lbs):											12948.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psi)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cumulative Mass (lb)
SW-166 Event 1	10/22/2015 9:38	10/22/2015	9:38	22	24	80	0	0.0				0
	10/22/2015 9:47	10/22/2015	9:47	23	25	80	0	0.0		0.0	0.00	0.0
	10/22/2015 9:48	10/22/2015	9:48	25	27	80	0	0.0		0.0	0.00	0.0
	10/22/2015 9:58	10/22/2015	9:58	25	27	80	0	0.0		0.0	0.00	0.0
	10/22/2015 9:59	10/22/2015	9:59	27	29	80	0	0.0		0.0	0.00	0.0
	10/22/2015 10:20	10/22/2015	10:20	27	29	83	0	0.0		0.0	0.00	0.0
	10/22/2015 10:21	10/22/2015	10:21	29	31	83	<2	0.0		0.0	0.00	0.0
	10/22/2015 10:40	10/22/2015	10:40	29	31	84	<2	0.0		0.0	0.00	0.0
	10/22/2015 10:41	10/22/2015	10:41	31	31	84	4	7.9		4.0	0.45	0.5
	10/22/2015 11:10	10/22/2015	11:10	31	31	84	5	9.9		258.6	29.58	30.0
	10/22/2015 11:11	10/22/2015	11:11	32	32	84	6	12.0		11.0	1.25	31.3
	10/22/2015 14:02	10/22/2015	14:02	32	32	82	8	16.1		2400.4	274.61	305.9
	10/22/2015 14:56	10/22/2015	14:56	32	31	80	8.5	17.1		895.0	102.39	408.3
	10/22/2015 14:57	10/22/2015	14:57	33	32	80	10	20.3		18.7	2.14	410.4
	10/22/2015 16:52	10/22/2015	16:52	33	32	78	11	22.4		2456.8	281.06	691.5
10/22/2015 16:53	10/22/2015	16:53		25					22.4	2.56	694.0	
SW-166 Event 2	11/19/2015 7:42	11/19/2015	7:42	26	27	76	0	0.0				694.0
	11/19/2015 7:54	11/19/2015	7:54	26	26	76	0	0.0		0.0	0.00	694.0
	11/19/2015 7:57	11/19/2015	7:57	28	29.5	76	0	0.0		0.0	0.00	694.0
	11/19/2015 9:18	11/19/2015	9:18	30	29.5	76	<2	0.0		0.0	0.00	694.0
	11/19/2015 10:47	11/19/2015	10:47	30	29.5	76	3	5.9		263.6	30.15	724.2
	11/19/2015 12:47	11/19/2015	12:47	30	28.5	77	4	7.9		828.7	94.81	819.0
	11/19/2015 12:48	11/19/2015	12:48	32	30.5	77	4.5	9.1		8.5	0.97	820.0
	11/19/2015 13:34	11/19/2015	13:34	31	30	78	5	10.0		437.9	50.09	870.1
	11/19/2015 13:35	11/19/2015	13:35	33	32.5	78	7.5	15.3		12.6	1.44	871.5
	11/19/2015 15:36	11/19/2015	15:36	33	32	76	8	16.3		1911.6	218.69	1090.2
	11/19/2015 15:37	11/19/2015	15:37		23.5					16.3	1.87	1092.1
SW-166 Event 3	12/1/2015 7:37	12/1/2015	7:37	24.5	24	68	0	0.0				1092.1
	12/1/2015 8:05	12/1/2015	8:05	24	23	68	0	0.0		0.0	0.00	1092.1
	12/1/2015 8:06	12/1/2015	8:06	30	29	68	0	0.0		0.0	0.00	1092.1
	12/1/2015 9:19	12/1/2015	9:19	30	28	70	0	0.0		0.0	0.00	1092.1
	12/1/2015 10:55	12/1/2015	10:55	30	28	79	<2	0.0		0.0	0.00	1092.1
	12/1/2015 12:09	12/1/2015	12:09	30	28	84	<2	0.0		0.0	0.00	1092.1
	12/1/2015 13:55	12/1/2015	13:55	30	28	83	3	5.9		311.8	35.67	1127.7
	12/1/2015 15:27	12/1/2015	15:27	30	28	80	4	7.9		632.5	72.36	1200.1
	12/1/2015 16:53	12/1/2015	16:53	30	28	74	4	7.9		678.5	77.62	1277.7
	12/2/2015 7:52	12/2/2015	7:52	29	26	70	7.5	14.7		10175.0	1164.02	2441.7
	12/2/2015 7:54	12/2/2015	7:54		20					29.4	3.37	2445.1
SW-166 Event 4	12/9/2015 7:43	12/9/2015	7:43	33	31	52	0	0.0				2445.1
	12/9/2015 8:06	12/9/2015	8:06	33	31	52	0	0.0		0.0	0.00	2445.1
	12/9/2015 9:32	12/9/2015	9:32	33	31	72	2	4.1		176.2	20.15	2465.3
	12/9/2015 11:16	12/9/2015	11:16	32	30	78	6	12.1		841.6	96.28	2561.5
	12/9/2015 12:42	12/9/2015	12:42	30	25	80	8	15.7		1196.4	136.86	2698.4
	12/9/2015 14:57	12/9/2015	14:57	30	25	78	10	19.7		2392.1	273.66	2972.1
	12/9/2015 16:16	12/9/2015	16:16	30	25	72	10	19.8		1561.2	178.60	3150.7
	12/9/2015 16:50	12/9/2015	16:50		19					673.9	77.09	3227.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psi)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cumulative Mass (lb)
SW-166 Event 5	12/17/2015 7:19	12/17/2015	7:19	27	26	72	0	0.0				3227.8
	12/17/2015 7:47	12/17/2015	7:47	27	24	73	<2	0.0		0.0	0.00	3227.8
	12/17/2015 7:50	12/17/2015	7:50	33	28	73	7	14.3		21.5	2.46	3230.2
	12/17/2015 9:19	12/17/2015	9:19	31.5	27.5	76	8.5	17.1		1396.8	159.80	3390.0
	12/17/2015 9:22	12/17/2015	9:22	33	29	76	10	20.4		56.2	6.43	3396.5
	12/17/2015 10:33	12/17/2015	10:33	33	28.5	79	10	20.3		1446.6	165.49	3561.9
	12/17/2015 11:33	12/17/2015	11:33	33	28	78	10.5	21.4		1251.9	143.21	3705.2
	12/17/2015 12:47	12/17/2015	12:47	32.5	27.5	78	12	24.3		1690.6	193.40	3898.6
	12/17/2015 13:32	12/17/2015	13:32	32.5	27.5	78	12	24.3		1093.8	125.14	4023.7
	12/17/2015 14:32	12/17/2015	14:32	32.5	27	77	12.5	25.3		1489.6	170.41	4194.1
12/17/2015 15:50	12/17/2015	15:50	32	26.5	74	13	26.3		2013.9	230.39	4424.5	
12/17/2015 15:51	12/17/2015	15:51		23					26.3	3.01	4427.5	
SW-166 Event 6	1/6/2016 8:02	1/6/2016	8:02	29	27	50	0	0.0				4427.5
	1/6/2016 8:29	1/6/2016	8:29	28	25	52	4	7.9		106.7	12.20	4439.7
	1/6/2016 8:30	1/6/2016	8:30	35	31	52	13	27.7		17.8	2.04	4441.7
	1/6/2016 10:39	1/6/2016	10:39	36	31	60	13.5	28.9		3650.8	417.65	4859.4
	1/6/2016 12:08	1/6/2016	12:08	34.5	29	64	13.5	28.3		2544.4	291.08	5150.5
	1/6/2016 13:57	1/6/2016	13:57	34	29	63	15	31.3		3250.4	371.85	5522.3
	1/6/2016 17:19	1/6/2016	17:19	36	28.5	62	19	40.5		7258.8	830.41	6352.7
	1/6/2016 17:20	1/6/2016	17:20		25					40.5	4.64	6357.4
SW-166 Event 7	1/8/2016 7:53	1/8/2016	7:53	26	26	61	0	0.0				6357.4
	1/8/2016 8:15	1/8/2016	8:15	26	24	62	5	9.5		105.0	12.01	6369.4
	1/8/2016 8:16	1/8/2016	8:16	32	28.5	62	13	26.6		18.1	2.07	6371.4
	1/8/2016 10:05	1/8/2016	10:05	33	28	65	13.5	27.8		2967.4	339.47	6710.9
	1/8/2016 11:11	1/8/2016	11:11	33	27.5	67	14.5	29.8		1903.8	217.79	6928.7
	1/8/2016 13:42	1/8/2016	13:42	33	26.5	69	15.5	31.8		4657.6	532.83	7461.5
	1/8/2016 14:57	1/8/2016	14:57	33	26.5	69	16	32.9		2426.7	277.62	7739.1
	1/8/2016 16:11	1/8/2016	16:11	33	26.5	68	16.5	33.9		2471.6	282.75	8021.9
	1/8/2016 17:01	1/8/2016	17:01	32	26	66	17	34.7		1714.6	196.15	8218.1
	1/8/2016 17:02	1/8/2016	17:02		22.5					34.7	3.96	8222.0
SW-166 Event 8	1/13/2016 8:00	1/13/2016	8:00	29	27	42	0	0.0				8222.0
	1/13/2016 8:14	1/13/2016	8:14	27.5	24.5	46	4	7.9		55.3	6.33	8228.3
	1/13/2016 8:15	1/13/2016	8:15	33	30.5	46	10	21.0		14.5	1.65	8230.0
	1/13/2016 9:57	1/13/2016	9:57	33	28	65	11	22.7		2229.3	255.03	8485.0
	1/13/2016 11:18	1/13/2016	11:18	33	27.5	68	12	24.7		1918.3	219.45	8704.5
	1/13/2016 13:57	1/13/2016	13:57	32	27	70	14	28.4		4221.7	482.96	9187.4
	1/13/2016 15:29	1/13/2016	15:29	32	26.5	66	14.5	29.6		2667.2	305.13	9492.6
	1/13/2016 16:57	1/13/2016	16:57	32	26	62	15	30.7		2651.2	303.30	9795.9
	1/13/2016 16:58	1/13/2016	16:58		23					30.7	3.51	9799.4
SW-166 Event 9	1/15/2016 7:02	1/15/2016	7:02	28.5	27	67	0	0.0				9799.4
	1/15/2016 7:27	1/15/2016	7:27	28.5	24.5	67	4.5	8.8		110.1	12.60	9812.0
	1/15/2016 7:28	1/15/2016	7:28	33	30	67	11	22.6		15.7	1.80	9813.8
	1/15/2016 8:45	1/15/2016	8:45	33	28	67	12	24.7		1822.7	208.52	10022.3
	1/15/2016 10:25	1/15/2016	10:25	32.5	27.5	67	13.5	27.6		2617.1	299.39	10321.7
	1/15/2016 11:15	1/15/2016	11:15	32.5	27	67	14	28.7		1407.6	161.03	10482.7
	1/15/2016 11:16	1/15/2016	11:16		23					28.7	3.28	10486.0

<u>Sparge Event</u>	<u>Date + Time</u>	<u>Date</u>	<u>Time</u>	<u>P at Panel (psig)</u>	<u>P at Well (psi)</u>	<u>Temp (°F)</u>	<u>Rotameter Reading (scfm)</u>	<u>Flow (scfm)</u>		<u>Volume of CO₂ (scf)</u>	<u>Mass of CO₂ (lb)</u>	<u>Cumulative Mass (lb)</u>
<u>SW-166 Event 10</u>	1/18/2016 8:28	1/18/2016	8:28	26	25	53	0	0.0				10486.0
	1/18/2016 9:11	1/18/2016	9:11	24	23	58	3	5.6		120.5	13.78	10499.8
	1/18/2016 9:12	1/18/2016	9:12	28	26.5	58	10	19.6		12.6	1.44	10501.2
	1/18/2016 10:12	1/18/2016	10:12	29	26	62	8	15.8		1063.9	121.71	10622.9
	1/18/2016 10:14	1/18/2016	10:14	32	27.5	62	10	20.5		36.3	4.15	10627.1
	1/18/2016 12:03	1/18/2016	12:03	32	27.5	66	12	24.5		2448.5	280.10	10907.2
	1/18/2016 13:50	1/18/2016	13:50	32	26.5	67	14	28.5		2833.9	324.20	11231.4
	1/18/2016 14:00	1/18/2016	14:00		23					285.1	32.61	11264.0
<u>SW-166 Event 11</u>	2/2/2016 8:16	2/2/2016	8:16	30	28	66	4	8.0				11264.0
	2/2/2016 8:40	2/2/2016	8:40	29	26	66	6.5	12.8		249.4	28.53	11292.5
	2/2/2016 8:41	2/2/2016	8:41	35	32.5	66	13	27.4		20.1	2.30	11294.8
	2/2/2016 10:07	2/2/2016	10:07	36	31.5	74	14.5	30.6		2490.9	284.95	11579.8
	2/2/2016 12:12	2/2/2016	12:12	35.5	29.5	76	16	33.5		4005.0	458.17	12038.0
	2/2/2016 14:09	2/2/2016	14:09	35.5	28.5	75	17.5	36.7		4105.9	469.71	12507.7
	2/2/2016 15:33	2/2/2016	15:33	34.5	28	77	18	37.3		3106.1	355.34	12863.0
	2/2/2016 15:34	2/2/2016	15:34		23.5					37.3	4.26	12867.3
Total CO ₂ Mass (lbs):												12867.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psi)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cumulative Mass (lb)
SW-167 Event 1	10/20/2015 10:09	10/20/2015	10:09	9	10	75	0	0.0				0
	10/20/2015 10:16	10/20/2015	10:16	9	10	75	0	0.0		0.0	0.00	0.0
	10/20/2015 10:17	10/20/2015	10:17	19	22	75	0	0.0		0.0	0.00	0.0
	10/20/2015 13:39	10/20/2015	13:39	20	22	80	0	0.0		0.0	0.00	0.0
	10/20/2015 13:40	10/20/2015	13:40	24	26	80	0	0.0		0.0	0.00	0.0
	10/20/2015 17:27	10/20/2015	17:27	24	26	76	2	3.7		416.6	47.66	47.7
	10/20/2015 17:28	10/20/2015	17:28	30	29	76	10	19.7		11.7	1.34	49.0
	10/20/2015 17:29	10/20/2015	17:29		24					19.7	2.26	51.3
SW-167 Event 2	11/16/2015 7:42	11/16/2015	7:42	27	28	68	0	0.0				51.3
	11/16/2015 8:15	11/16/2015	8:15	27	26.5	71	0	0.0		0.0	0.00	51.3
	11/16/2015 8:19	11/16/2015	8:19	34	33	71	8	16.6		33.2	3.79	55.1
	11/16/2015 9:42	11/16/2015	9:42	34	33	78	9	18.5		1456.6	166.64	221.7
	11/16/2015 10:42	11/16/2015	10:42	34	32.5	81	10	20.5		1171.3	134.00	355.7
	11/16/2015 12:07	11/16/2015	12:07	34	32	81	10.5	21.5		1787.9	204.54	560.2
	11/16/2015 14:20	11/16/2015	14:20	34	31	80	11	22.6		2935.5	335.82	896.0
	11/16/2015 14:21	11/16/2015	14:21	36	33	80	14	29.4		26.0	2.97	899.0
	11/16/2015 16:06	11/16/2015	16:06	36	32	75	14.5	30.5		3144.6	359.74	1258.8
	11/16/2015 16:57	11/16/2015	16:57	36	31.5	74	15	31.6		1585.5	181.38	1440.1
	11/16/2015 16:58	11/16/2015	16:58		25					31.6	3.62	1443.8
	SW-167 Event 3	11/20/2015 7:47	11/20/2015	7:47	27	27	66	0	0.0			
11/20/2015 8:10		11/20/2015	8:10	27	26	69	0	0.0		0.0	0.00	1443.8
11/20/2015 8:13		11/20/2015	8:13	30	28.5	69	4	8.0		11.9	1.36	1445.1
11/20/2015 9:29		11/20/2015	9:29	30	28.5	75	6	11.9		752.7	86.11	1531.2
11/20/2015 11:02		11/20/2015	11:02	30	28.5	80	6	11.8		1100.1	125.85	1657.1
11/20/2015 11:06		11/20/2015	11:06	33	31	80	9	18.3		60.2	6.89	1664.0
11/20/2015 13:00		11/20/2015	13:00	33	30.5	79	9.5	19.3		2144.4	245.32	1909.3
11/20/2015 14:57		11/20/2015	14:57	33	30.5	77	10	20.4		2323.2	265.77	2175.1
11/20/2015 17:03		11/20/2015	17:03	33	30	73	11	22.5		2702.4	309.15	2484.2
11/20/2015 17:04		11/20/2015	17:04		23					22.5	2.58	2486.8
SW-167 Event 4	12/2/2015 7:59	12/2/2015	7:59	25	24	70	0	0.0				2486.8
	12/2/2015 8:53	12/2/2015	8:53	24.5	23	71	0	0.0		0.0	0.00	2486.8
	12/2/2015 8:55	12/2/2015	8:55	30	29	71	4	7.9		7.9	0.91	2487.7
	12/2/2015 11:27	12/2/2015	11:27	30	28.5	80	7	13.8		1649.4	188.69	2676.4
	12/2/2015 12:43	12/2/2015	12:43	30	28	80	8	15.7		1121.0	128.25	2804.6
	12/2/2015 12:44	12/2/2015	12:44	35	32	80	13	27.0		21.4	2.44	2807.1
	12/2/2015 14:08	12/2/2015	14:08	37	33	82	15	31.7		2464.5	281.94	3089.0
	12/2/2015 15:42	12/2/2015	15:42	36.5	32.5	74	16	33.9		3083.5	352.76	3441.8
	12/2/2015 16:54	12/2/2015	16:54	36	31.5	72	17	35.9		2513.7	287.57	3729.3
	12/2/2015 16:55	12/2/2015	16:55		24					35.9	4.11	3733.4
SW-167 Event 5	12/10/2015 7:45	12/10/2015	7:45	35	33	52	0	0.0				3733.4
	12/10/2015 8:08	12/10/2015	8:08	33	30	52	6	12.5		144.2	16.49	3749.9
	12/10/2015 9:39	12/10/2015	9:39	33	30	72	8	16.4		1316.1	150.56	3900.5
	12/10/2015 10:44	12/10/2015	10:44	33	30	76	8	16.3		1063.1	121.62	4022.1
	12/10/2015 11:44	12/10/2015	11:44	33	30	78	8	16.3		978.5	111.94	4134.1
	12/10/2015 13:23	12/10/2015	13:23	33	30	78	9	18.3		1713.7	196.05	4330.1
	12/10/2015 13:24	12/10/2015	13:24	35	33	78	13	27.0		22.7	2.59	4332.7
	12/10/2015 15:12	12/10/2015	15:12	35	35	78	14	29.1		3031.7	346.83	4679.5
	12/10/2015 16:46	12/10/2015	16:46		24					2736.5	313.05	4992.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psi)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cumulative Mass (lb)
SW-167 Event 6	12/16/2015 7:32	12/16/2015	7:32	27	26	67	0	0.0				4992.6
	12/16/2015 8:07	12/16/2015	8:07	27	23.5	68	0	0.0		0.0	0.00	4992.6
	12/16/2015 8:11	12/16/2015	8:11	35	31	68	9	18.9		37.8	4.32	4996.9
	12/16/2015 9:19	12/16/2015	9:19	35	30	72	12	25.1		1495.9	171.13	5168.0
	12/16/2015 10:58	12/16/2015	10:58	34	29	74	12	24.8		2469.6	282.52	5450.6
	12/16/2015 12:26	12/16/2015	12:26	33.5	28.5	76	12	24.6		2173.9	248.70	5699.2
	12/16/2015 14:33	12/16/2015	14:33	33.5	27.5	74	13	26.7		3259.6	372.90	6072.2
	12/16/2015 15:54	12/16/2015	15:54	34.5	28.5	73	16	33.3		2429.1	277.89	6350.0
	12/16/2015 17:00	12/16/2015	17:00	34	28	73	16	33.1		2189.5	250.48	6600.5
	12/16/2015 17:01	12/16/2015	17:01		21					33.1	3.79	6604.3
SW-167 Event 7	12/18/2015 7:55	12/18/2015	7:55	27	24	69	0	0.0				6604.3
	12/18/2015 8:23	12/18/2015	8:23	27	22.5	69	<2	0.0		0.0	0.00	6604.3
	12/18/2015 8:24	12/18/2015	8:24	35	30.5	69	11	23.1		11.5	1.32	6605.6
	12/18/2015 9:25	12/18/2015	9:25	34.5	30	69	12	25.0		1467.6	167.89	6773.5
	12/18/2015 10:26	12/18/2015	10:26	34	29.5	72	12.5	25.9		1553.0	177.67	6951.2
	12/18/2015 11:33	12/18/2015	11:33	33.5	28	74	12.5	25.7		1727.5	197.62	7148.8
	12/18/2015 12:30	12/18/2015	12:30	33.5	28	72	13	26.8		1495.1	171.04	7319.9
	12/18/2015 13:25	12/18/2015	13:25	33	27.5	72	13.5	27.7		1496.6	171.21	7491.1
	12/18/2015 14:19	12/18/2015	14:19	33	27	71	15	30.8		1577.0	180.41	7671.5
	12/18/2015 14:20	12/18/2015	14:20		22					30.8	3.52	7675.0
SW-167 Event 8	12/21/2015 7:25	12/21/2015	7:25	28	27	62	0	0.0				7675.0
	12/21/2015 7:53	12/21/2015	7:53	28.5	24	64	<2	0.0		0.0	0.00	7675.0
	12/21/2015 7:54	12/21/2015	7:54	33	29.5	64	8	16.5		8.3	0.94	7675.9
	12/21/2015 9:12	12/21/2015	9:12	33.5	29	71	9	18.6		1367.6	156.46	7832.4
	12/21/2015 11:30	12/21/2015	11:30	33.5	28.5	77	10	20.5		2694.0	308.20	8140.6
	12/21/2015 12:53	12/21/2015	12:53	33	28	81	10.5	21.3		1735.3	198.52	8339.1
	12/21/2015 14:24	12/21/2015	14:24	32.5	27.5	73	11.5	23.4		2035.2	232.83	8571.9
	12/21/2015 15:04	12/21/2015	15:04	32.5	27	74	12	24.4		956.2	109.39	8681.3
	12/21/2015 15:58	12/21/2015	15:58	32	27	72	12	24.3		1315.4	150.48	8831.8
	12/21/2015 16:50	12/21/2015	16:50	32	27	72	12	24.3		1264.5	144.66	8976.5
12/21/2015 16:52	12/21/2015	16:52		22					48.6	5.56	8982.0	
SW-167 Event 9	1/7/2016 8:19	1/7/2016	8:19	27	25	57	0	0.0				8982.0
	1/7/2016 8:30	1/7/2016	8:30	25	24	58	0	0.0		0.0	0.00	8982.0
	1/7/2016 8:31	1/7/2016	8:31	32	31	58	8	16.4		8.2	0.94	8983.0
	1/7/2016 10:35	1/7/2016	10:35	34.5	30.5	64	10	21.0		2319.4	265.34	9248.3
	1/7/2016 11:56	1/7/2016	11:56	34	30	65	11	22.9		1778.0	203.40	9451.7
	1/7/2016 14:13	1/7/2016	14:13	34	28.5	66	13	27.1		3424.8	391.80	9843.5
	1/7/2016 15:19	1/7/2016	15:19	34	28.5	68	13	27.0		1784.8	204.19	10047.7
	1/7/2016 16:55	1/7/2016	16:55	34	28.5	65	14	29.2		2697.5	308.59	10356.3
	1/7/2016 16:57	1/7/2016	16:57		23.5					58.4	6.68	10363.0
SW-167 Event 10	1/11/2016 8:14	1/11/2016	8:14	26	25	45	0	0.0				10363.0
	1/11/2016 8:38	1/11/2016	8:38	24	23	52	0	0.0		0.0	0.00	10363.0
	1/11/2016 8:39	1/11/2016	8:39	33	30.5	52	9	18.8		9.4	1.08	10364.1
	1/11/2016 10:19	1/11/2016	10:19	34	30	65	10	20.8		1982.5	226.80	10590.8
	1/11/2016 11:55	1/11/2016	11:55	34	29	67	11	22.9		2098.9	240.11	10831.0
	1/11/2016 13:58	1/11/2016	13:58	33.5	28	67	12	24.8		2934.5	335.70	11166.7
	1/11/2016 15:23	1/11/2016	15:23	33.5	28	69	13.5	27.9		2240.3	256.29	11423.0
	1/11/2016 16:58	1/11/2016	16:58	33.5	28	66	14	29.0		2701.8	309.09	11732.0
	1/11/2016 16:59	1/11/2016	16:59		18					29.0	3.32	11735.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psi)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cumulative Mass (lb)
SW-167 Event 11	1/14/2016 7:34	1/14/2016	7:34	28.5	27.5	46	0	0.0				11735.4
	1/14/2016 7:57	1/14/2016	7:57	28.5	25	48	0	0.0		0.0	0.00	11735.4
	1/14/2016 7:58	1/14/2016	7:58	34	31	48	4	8.5		4.2	0.49	11735.8
	1/14/2016 9:09	1/14/2016	9:09	33.5	30	60	7	14.6		818.9	93.68	11829.5
	1/14/2016 11:19	1/14/2016	11:19	33.5	28	69	10	20.7		2290.6	262.04	12091.6
	1/14/2016 13:07	1/14/2016	13:07	32	28	69	10.5	21.3		2267.6	259.42	12351.0
	1/14/2016 14:18	1/14/2016	14:18	32	27.5	67	11.5	23.4		1588.9	181.77	12532.8
	1/14/2016 16:06	1/14/2016	16:06	31.5	27	64	12.5	25.4		2635.7	301.53	12834.3
	1/14/2016 16:53	1/14/2016	16:53	31.5	27	63	12.5	25.4		1194.0	136.59	12970.9
	1/14/2016 16:55	1/14/2016	16:55		22.5					50.8	5.82	12976.7
SW-167 Event 12	1/19/2016 7:46	1/19/2016	7:46	28	26.5	40	0	0.0				12976.7
	1/19/2016 8:12	1/19/2016	8:12	28	25	44	0	0.0		0.0	0.00	12976.7
	1/19/2016 8:13	1/19/2016	8:13	35	31.5	44	9	19.4		9.7	1.11	12977.8
	1/19/2016 9:51	1/19/2016	9:51	35	31	58	10	21.2		1987.9	227.42	13205.2
	1/19/2016 11:44	1/19/2016	11:44	34.5	30.5	63	11	23.1		2503.0	286.34	13491.6
	1/19/2016 14:31	1/19/2016	14:31	34	29	65	14	29.2		4364.9	499.34	13990.9
	1/19/2016 16:11	1/19/2016	16:11	33.5	28	64	15	31.1		3015.7	344.99	14335.9
	1/19/2016 17:11	1/19/2016	17:11	33.5	28	62	15.5	32.2		1901.0	217.47	14553.4
	1/19/2016 17:12	1/19/2016	17:12		23					32.2	3.69	14557.1
SW-167 Event 13	2/3/2016 7:25	2/3/2016	7:25	26	26	71	0	0.0				14557.1
	2/3/2016 7:38	2/3/2016	7:38	26	25	71	<2	0.0		0.0	0.00	14557.1
	2/3/2016 7:39	2/3/2016	7:39	33	31	71	8.5	17.4		8.7	1.00	14558.1
	2/3/2016 9:19	2/3/2016	9:19	34	31	72	10.5	21.7		1958.2	224.02	14782.1
	2/3/2016 10:55	2/3/2016	10:55	34	30	79	12.5	25.7		2276.9	260.48	15042.6
	2/3/2016 12:18	2/3/2016	12:18	34	29	76	13.5	27.8		2221.8	254.18	15296.7
	2/3/2016 14:11	2/3/2016	14:11	34	28	79	14.5	29.8		3257.2	372.63	15669.4
	2/3/2016 15:07	2/3/2016	15:07	34	27.5	80	15	30.8		1697.5	194.19	15863.5
	2/3/2016 16:07	2/3/2016	16:07	34	27	76	15.5	32.0		1883.2	215.44	16079.0
	2/3/2016 16:08	2/3/2016	16:08		22					32.0	3.66	16082.6
Total CO ₂ Mass (lbs):											16082.6	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-168 Event 1	10/23/2015 9:18	10/23/2015	9:18	12	11	77	0	0.0				0
	10/23/2015 9:30	10/23/2015	9:30	18	19	77	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 9:48	10/23/2015	9:48	24	24	79	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 10:37	10/23/2015	10:37	24	24	78	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 10:38	10/23/2015	10:38	28	28	78	6	11.6	5.8	0.66	0.7	0.7
	10/23/2015 10:42	10/23/2015	10:42	30	30	78	8	15.8	54.6	6.25	6.9	6.9
	10/23/2015 10:48	10/23/2015	10:48	31	31	78	8	15.9	95.1	10.88	17.8	17.8
	10/23/2015 11:30	10/23/2015	11:30	31	30.5	79	9	17.9	711.0	81.34	99.1	99.1
	10/23/2015 12:00	10/23/2015	12:00	31	30	80	10	19.9	567.1	64.88	164.0	164.0
	10/23/2015 12:38	10/23/2015	12:38	31	30	80	10	19.9	755.8	86.46	250.5	250.5
	10/23/2015 13:04	10/23/2015	13:04	31	30	80	10	19.9	517.1	59.16	309.6	309.6
10/23/2015 13:07	10/23/2015	13:07		25				59.7	6.83	316.5	316.5	
SW-168 Event 2	11/18/2015 8:14	11/18/2015	8:14	26	27	75	0	0.0				316.5
	11/18/2015 9:20	11/18/2015	9:20	26	25	76	0	0.0	0.0	0.00	316.5	316.5
	11/18/2015 9:21	11/18/2015	9:21	30	30	76	9	17.8	8.9	1.02	317.5	317.5
	11/18/2015 10:50	11/18/2015	10:50	31	29.5	77	8	16.0	1500.8	171.69	489.2	489.2
	11/18/2015 12:01	11/18/2015	12:01	32	29.5	79	9	18.1	1209.6	138.37	627.5	627.5
	11/18/2015 13:11	11/18/2015	13:11	32	29	76	10	20.2	1340.5	153.36	780.9	780.9
	11/18/2015 15:07	11/18/2015	15:07	32	28.5	75	10	20.2	2342.7	268.01	1048.9	1048.9
	11/18/2015 16:59	11/18/2015	16:59	32	28.5	74	10.5	21.2	2320.8	265.49	1314.4	1314.4
	11/18/2015 17:00	11/18/2015	17:00		24				21.2	2.43	1316.8	1316.8
SW-168 Event 3	12/15/2015 8:03	12/15/2015	8:03	30	29	68	0	0.0				1316.8
	12/15/2015 8:22	12/15/2015	8:22	30	29	69	0	0.0	0.0	0.00	1316.8	1316.8
	12/15/2015 8:24	12/15/2015	8:24	32	32	69	4	8.1	8.1	0.93	1317.8	1317.8
	12/15/2015 9:54	12/15/2015	9:54	32	30.5	74	7.5	15.2	1048.4	119.94	1437.7	1437.7
	12/15/2015 11:40	12/15/2015	11:40	31.5	30	78	9.5	19.0	1812.8	207.39	1645.1	1645.1
	12/15/2015 13:29	12/15/2015	13:29	31	29	80	10.5	20.9	2175.6	248.89	1894.0	1894.0
	12/15/2015 14:55	12/15/2015	14:55	30.5	28.5	80	11	21.8	1833.5	209.75	2103.7	2103.7
	12/15/2015 16:12	12/15/2015	16:12	30.5	28	78	12	23.8	1753.1	200.56	2304.3	2304.3
	12/15/2015 17:15	12/15/2015	17:15	29.5	27.5	74	12	23.6	1492.5	170.75	2475.0	2475.0
	12/16/2015 7:54	12/16/2015	7:54	29.5	26.5	68	16	31.7	24285.2	2778.23	5253.3	5253.3
	12/16/2015 7:59	12/16/2015	7:59		22				158.3	18.11	5271.4	5271.4
SW-168 Event 4	1/12/2016 7:55	1/12/2016	7:55	29.5	28	37	0	0.0				5271.4
	1/12/2016 8:19	1/12/2016	8:19	29	27.5	44	3	6.0	72.5	8.30	5279.7	5279.7
	1/12/2016 8:21	1/12/2016	8:21	33	31.5	44	9.5	20.0	26.1	2.98	5282.7	5282.7
	1/12/2016 10:02	1/12/2016	10:02	32	31	60	9.5	19.5	1994.5	228.17	5510.8	5510.8
	1/12/2016 11:23	1/12/2016	11:23	32	30	63	10.5	21.5	1658.4	189.72	5700.5	5700.5
	1/12/2016 12:36	1/12/2016	12:36	31.5	29.5	66	11	22.3	1597.5	182.75	5883.3	5883.3
	1/12/2016 14:48	1/12/2016	14:48	30.5	28.5	67	12	24.0	3058.1	349.85	6233.1	6233.1
	1/12/2016 16:11	1/12/2016	16:11	30.5	28.5	65	12.5	25.1	2038.5	233.21	6466.4	6466.4
	1/12/2016 17:13	1/12/2016	17:13	30	28	63	12.5	25.0	1552.5	177.60	6644.0	6644.0
	1/12/2016 17:18	1/12/2016	17:18		22.5				125.0	14.30	6658.3	6658.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-168 Event 5	1/27/2016 7:24	1/27/2016	7:24	29.5	29	60	0	0.0				6658.3
	1/27/2016 7:42	1/27/2016	7:42	28.5	27.5	60	<2	0.0	0.0	0.00		6658.3
	1/27/2016 7:43	1/27/2016	7:43	33	32.5	60	9	18.7	9.3	1.07		6659.3
	1/27/2016 9:18	1/27/2016	9:18	33	32	61	9.5	19.7	1820.5	208.27		6867.6
	1/27/2016 10:57	1/27/2016	10:57	33	30.5	70	11	22.6	2091.3	239.24		7106.8
	1/27/2016 12:11	1/27/2016	12:11	32.5	30	70	11.5	23.5	1703.9	194.93		7301.8
	1/27/2016 14:01	1/27/2016	14:01	32	29.5	68	13	26.4	2745.8	314.12		7615.9
	1/27/2016 15:59	1/27/2016	15:59	32	29	70	14	28.4	3237.5	370.37		7986.2
	1/27/2016 17:02	1/27/2016	17:02	32	29	66	14.5	29.6	1826.5	208.95		8195.2
1/27/2016 17:04	1/27/2016	17:04		22				59.1	6.76		8202.0	
SW-168 Event 6	1/29/2016 7:37	1/29/2016	7:37	30	29.5	51	0	0.0				8202.0
	1/29/2016 7:51	1/29/2016	7:51	30	28	51	<2	0.0	0.0	0.00		8202.0
	1/29/2016 7:53	1/29/2016	7:53	34	32	51	6	12.7	12.7	1.45		8203.4
	1/29/2016 9:22	1/29/2016	9:22	33	31	59	10	20.7	1487.7	170.19		8373.6
	1/29/2016 10:40	1/29/2016	10:40	32.5	30	64	12	24.6	1770.2	202.51		8576.1
	1/29/2016 11:54	1/29/2016	11:54	32	29	68	12.5	25.4	1852.7	211.95		8788.1
	1/29/2016 11:57	1/29/2016	11:57		23				76.3	8.73		8796.8
SW-168 Event 7	2/3/2016 7:19	2/3/2016	7:19	30	29	70	0	0.0				8796.8
	2/3/2016 7:42	2/3/2016	7:42	28.5	27.5	70	4	7.8	89.8	10.27		8807.1
	2/3/2016 7:45	2/3/2016	7:45	33	32	70	10.5	21.5	44.0	5.04		8812.1
	2/3/2016 9:29	2/3/2016	9:29	33	31.5	70	12	24.6	2401.3	274.71		9086.8
	2/3/2016 11:05	2/3/2016	11:05	33	30	74	14	28.6	2556.0	292.41		9379.2
	2/3/2016 12:27	2/3/2016	12:27	33	29.5	73	14.5	29.7	2390.0	273.42		9652.6
	2/3/2016 12:32	2/3/2016	12:32		24				148.4	16.97		9669.6
SW-168 Event 8	2/8/2016 7:53	2/8/2016	7:53	29.5	29	47	0	0.0				9669.6
	2/8/2016 8:16	2/8/2016	8:16	29.5	29	51	0	0.0	0.0	0.00		9669.6
	2/8/2016 8:18	2/8/2016	8:18	33.5	33	51	0	0.0	0.0	0.00		9669.6
	2/8/2016 9:25	2/8/2016	9:25	33.5	33	58	0	0.0	0.0	0.00		9669.6
	2/8/2016 10:51	2/8/2016	10:51	31	29	62	7	14.2	609.3	69.70		9739.3
	2/8/2016 12:00	2/8/2016	12:00	30	28.5	65	7.5	15.0	1005.2	114.99		9854.3
	2/8/2016 13:02	2/8/2016	13:02	29	28	66	8	15.8	952.7	108.99		9963.3
	2/8/2016 14:18	2/8/2016	14:18	29	27.5	66	8	15.8	1198.3	137.08		10100.4
	2/8/2016 15:52	2/8/2016	15:52	28	27	66	8	15.6	1473.4	168.56		10268.9
	2/8/2016 17:14	2/8/2016	17:14	28	26.5	64	9	17.6	1359.1	155.48		10424.4
	2/8/2016 17:15	2/8/2016	17:15		23				17.6	2.01		10426.4
SW-168 Event 9	2/12/2016 7:30	2/12/2016	7:30	31	30.5	60	0	0.0				10426.4
	2/12/2016 7:49	2/12/2016	7:49	30	28.5	60	5	10.0	95.3	10.90		10437.3
	2/12/2016 7:52	2/12/2016	7:52	35	33	60	12	25.4	53.1	6.08		10443.4
	2/12/2016 8:52	2/12/2016	8:52	35	33	60	12	25.4	1523.9	174.33		10617.7
	2/12/2016 10:10	2/12/2016	10:10	34.5	32	66	14	29.3	2133.4	244.06		10861.8
	2/12/2016 11:11	2/12/2016	11:11	34	31.5	67	14.5	30.2	1813.7	207.49		11069.3
	2/12/2016 12:10	2/12/2016	12:10	33	31	70	15	30.8	1798.0	205.69		11275.0
2/12/2016 12:12	2/12/2016	12:12		26				61.6	7.04		11282.0	
SW-168 Event 10	2/15/2016 7:42	2/15/2016	7:42	30	30	49	<2	0.0				11282.0
	2/15/2016 8:32	2/15/2016	8:32	29	28	54	5.5	11.0	274.2	31.37		11313.4
	2/15/2016 8:34	2/15/2016	8:34	34	33	54	12	25.3	36.3	4.15		11317.5
	2/15/2016 10:11	2/15/2016	10:11	34.5	32.5	59	14	29.5	2657.7	304.04		11621.6
	2/15/2016 11:22	2/15/2016	11:22	34.5	32	60	15	31.6	2168.8	248.11		11869.7
	2/15/2016 11:29	2/15/2016	11:29	34.5	31.5	64	16	33.6	228.0	26.08		11895.8
	2/15/2016 14:20	2/15/2016	14:20	34	30	66	17	35.4	5895.7	674.47		12570.2

LCP Chemicals Site, Brunswick, GA
 SW-168

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/15/2016 15:49	2/15/2016	15:49	34	29	66	18	37.5		3243.2	371.02	12941.3
	2/15/2016 15:50	2/15/2016	15:50		24.5					37.5	4.29	12945.5
Total CO ₂ Mass (lbs):											12945.5	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-169 Event 1	10/23/2015 9:18	10/23/2015	9:18	20	22	72	0	0.0				0
	10/23/2015 9:22	10/23/2015	9:22	22	25	72	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 9:25	10/23/2015	9:25	24	26	72	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 9:37	10/23/2015	9:37	26	28	73	4	7.6	45.3	5.18	5.2	5.2
	10/23/2015 9:47	10/23/2015	9:47	28	29	74	7	13.5	105.4	12.06	17.2	17.2
	10/23/2015 9:59	10/23/2015	9:59	30	31	74	10	19.8	199.9	22.86	40.1	40.1
	10/23/2015 11:27	10/23/2015	11:27	30	30	80	10	19.7	1735.7	198.57	238.7	238.7
	10/23/2015 13:04	10/23/2015	13:04	30	29	80	10	19.7	1907.7	218.24	456.9	456.9
	10/23/2015 13:05	10/23/2015	13:05	32	31	80	14	28.2	23.9	2.74	459.7	459.7
	10/23/2015 14:10	10/23/2015	14:10	32	31	78	13	26.2	1766.2	202.05	661.7	661.7
	10/23/2015 15:48	10/23/2015	15:48	32	31	78	13	26.2	2566.8	293.64	955.3	955.3
	10/23/2015 16:33	10/23/2015	16:33	32	31	78	14	28.2	1223.9	140.02	1095.4	1095.4
	10/23/2015 16:34	10/23/2015	16:34		25				28.2	3.23	1098.6	1098.6
SW-169 Event 2	11/20/2015 8:00	11/20/2015	8:00	25	26	64	0	0.0				1098.6
	11/20/2015 8:26	11/20/2015	8:26	24.5	24	66	0	0.0	0.0	0.00	1098.6	1098.6
	11/20/2015 8:29	11/20/2015	8:29	28	28.5	66	4	7.8	11.7	1.34	1099.9	1099.9
	11/20/2015 9:42	11/20/2015	9:42	28	27.5	73	4	7.7	566.8	64.85	1164.8	1164.8
	11/20/2015 9:45	11/20/2015	9:45	31	31	73	9	18.0	38.6	4.42	1169.2	1169.2
	11/20/2015 11:19	11/20/2015	11:19	32	31	79	8	16.1	1603.8	183.48	1352.7	1352.7
	11/20/2015 13:07	11/20/2015	13:07	33	30	79	10	20.3	1968.2	225.16	1577.8	1577.8
	11/20/2015 15:07	11/20/2015	15:07	33	30	78	10	20.4	2442.6	279.44	1857.3	1857.3
	11/20/2015 17:19	11/20/2015	17:19	33	29.5	70	11	22.6	2834.1	324.22	2181.5	2181.5
	11/20/2015 17:22	11/20/2015	17:22		24				67.7	7.75	2189.2	2189.2
SW-169 Event 3	12/16/2015 8:04	12/16/2015	8:04	28	28	68	0	0.0				2189.2
	12/16/2015 8:25	12/16/2015	8:25	27.5	27	68	0	0.0	0.0	0.00	2189.2	2189.2
	12/16/2015 8:29	12/16/2015	8:29	32	31	68	6	12.2	24.4	2.79	2192.0	2192.0
	12/16/2015 9:29	12/16/2015	9:29	32	30.5	70	7.5	15.2	823.0	94.16	2286.2	2286.2
	12/16/2015 11:19	12/16/2015	11:19	31	29	72	9.5	19.0	1884.8	215.62	2501.8	2501.8
	12/16/2015 12:34	12/16/2015	12:34	30.5	28.5	74	10	19.9	1460.0	167.03	2668.8	2668.8
	12/16/2015 14:42	12/16/2015	14:42	30	28	73	11	21.8	2667.1	305.12	2973.9	2973.9
	12/16/2015 16:00	12/16/2015	16:00	31	28	72	13	26.1	1865.6	213.43	3187.4	3187.4
	12/16/2015 17:18	12/16/2015	17:18	30.5	28	71	14	27.9	2105.5	240.87	3428.2	3428.2
	12/16/2015 17:20	12/16/2015	17:20		23				55.9	6.39	3434.6	3434.6
SW-169 Event 4	12/18/2015 8:04	12/18/2015	8:04	28	27	68	0	0.0				3434.6
	12/18/2015 8:32	12/18/2015	8:32	25	24	66	4	7.5	105.1	12.03	3446.7	3446.7
	12/18/2015 8:33	12/18/2015	8:33	33	30.5	66	12	24.7	16.1	1.84	3448.5	3448.5
	12/18/2015 9:35	12/18/2015	9:35	33	30.5	67	13	26.8	1596.0	182.59	3631.1	3631.1
	12/18/2015 10:32	12/18/2015	10:32	34	29	70	14	29.0	1590.2	181.92	3813.0	3813.0
	12/18/2015 11:35	12/18/2015	11:35	33	28.5	70	14	28.7	1819.8	208.18	4021.2	4021.2
	12/18/2015 12:38	12/18/2015	12:38	33	28	72	14.5	29.7	1840.7	210.57	4231.8	4231.8
	12/18/2015 13:39	12/18/2015	13:39	33	27.5	71	14.5	29.7	1812.7	207.37	4439.1	4439.1
	12/18/2015 14:34	12/18/2015	14:34	33	29	70	15	30.8	1664.2	190.38	4629.5	4629.5
	12/18/2015 14:35	12/18/2015	14:35		22				30.8	3.52	4633.0	4633.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-169 Event 5	12/21/2015 7:35	12/21/2015	7:35	28	28.5	60	0	0.0				4633.0	
	12/21/2015 8:03	12/21/2015	8:03	27.5	26	62	4.5	8.7	122.5	14.01	4647.1		
	12/21/2015 8:04	12/21/2015	8:04	32	30	62	10	20.5	14.6	1.67	4648.7		
	12/21/2015 9:25	12/21/2015	9:25	32	30	68	12	24.4	1817.5	207.93	4856.6		
	12/21/2015 11:40	12/21/2015	11:40	31.5	29	74	14	28.2	3548.7	405.98	5262.6		
	12/21/2015 13:06	12/21/2015	13:06	31.5	28.5	78	14.5	29.1	2460.3	281.45	5544.1		
	12/21/2015 14:16	12/21/2015	14:16	31	28	72	14.5	29.1	2034.1	232.70	5776.8		
	12/21/2015 15:15	12/21/2015	15:15	30.5	27.5	72	14.5	28.9	1709.9	195.62	5972.4		
	12/21/2015 16:09	12/21/2015	16:09	30.5	27.5	71	14.5	28.9	1561.4	178.63	6151.0		
	12/21/2015 17:00	12/21/2015	17:00	31.5	27.5	70	14.5	29.3	1484.3	169.81	6320.8		
	12/21/2015 17:04	12/21/2015	17:04		23				117.1	13.40	6334.2		
	SW-169 Event 6	1/14/2016 7:46	1/14/2016	7:46	27.5	28	40	0	0.0				6334.2
1/14/2016 8:11		1/14/2016	8:11	25	24.5	46	5.5	10.5	131.7	15.06	6349.3		
1/14/2016 8:14		1/14/2016	8:14	32	31	46	13	27.0	56.4	6.45	6355.7		
1/14/2016 9:21		1/14/2016	9:21	32	29.5	57	14.5	29.8	1904.9	217.92	6573.7		
1/14/2016 11:28		1/14/2016	11:28	32	28	64	16.5	33.7	4033.7	461.46	7035.1		
1/14/2016 13:11		1/14/2016	13:11	31.5	28	64	17	34.5	3514.0	402.00	7437.1		
1/14/2016 14:33		1/14/2016	14:33	31.5	27.5	62	17	34.6	2834.4	324.26	7761.4		
1/14/2016 16:12		1/14/2016	16:12	31	27	60	18	36.5	3519.8	402.67	8164.0		
1/14/2016 17:02		1/14/2016	17:02	30.5	27	60	18	36.3	1820.2	208.24	8372.3		
1/14/2016 17:03		1/14/2016	17:03		22				36.3	4.15	8376.4		
SW-169 Event 7		1/20/2016 7:47	1/20/2016	7:47	31	29	34	<2	0.0				8376.4
		1/20/2016 8:18	1/20/2016	8:18	29	27	45	7	14.1	218.4	24.98	8401.4	
	1/20/2016 8:19	1/20/2016	8:19	34	30.5	45	15	31.9	23.0	2.63	8404.0		
	1/20/2016 9:40	1/20/2016	9:40	34	30.5	57	16	33.6	2653.6	303.57	8707.6		
	1/20/2016 11:05	1/20/2016	11:05	33.5	30	62	17.5	36.4	2975.5	340.39	9048.0		
	1/20/2016 12:32	1/20/2016	12:32	33.5	29	63	18	37.4	3209.9	367.21	9415.2		
	1/20/2016 14:22	1/20/2016	14:22	33.5	29	64	19	39.4	4225.7	483.42	9898.6		
	1/20/2016 15:56	1/20/2016	15:56	33	29	64	19	39.2	3697.1	422.94	10321.6		
	1/20/2016 16:55	1/20/2016	16:55	32.5	28.5	62	20	41.2	2371.2	271.26	10592.8		
	1/20/2016 16:56	1/20/2016	16:56		24				41.2	4.71	10597.5		
	SW-169 Event 8	1/25/2016 7:53	1/25/2016	7:53	28	28	38	0	0.0				10597.5
		1/25/2016 8:22	1/25/2016	8:22	26	25	39	8	15.6	226.6	25.92	10623.5	
1/25/2016 8:23		1/25/2016	8:23	31	29	39	14	29.0	22.3	2.55	10626.0		
1/25/2016 9:25		1/25/2016	9:25	31.5	28.5	55	18	36.9	2043.0	233.72	10859.7		
1/25/2016 11:04		1/25/2016	11:04	31.5	28	61	18	36.7	3641.5	416.59	11276.3		
1/25/2016 12:21		1/25/2016	12:21	31.5	28	64	18	36.6	2819.6	322.56	11598.9		
1/25/2016 14:06		1/25/2016	14:06	31.5	28	66	18	36.5	3835.4	438.77	12037.7		
1/25/2016 16:18		1/25/2016	16:18	31	27	63	18.5	37.4	4877.4	557.98	12595.6		
1/25/2016 17:09		1/25/2016	17:09	31	26.5	60	19	38.5	1936.6	221.54	12817.2		
1/25/2016 17:10		1/25/2016	17:10		22				38.5	4.41	12821.6		
SW-169 Event 9		2/9/2016 7:47	2/9/2016	7:47	29	29	47	4	8.0				12821.6
		2/9/2016 8:04	2/9/2016	8:04	28	28	50	7	13.9	186.1	21.29	12842.9	
	2/9/2016 8:07	2/9/2016	8:07	35	33	50	13	27.8	62.5	7.15	12850.0		
	2/9/2016 9:22	2/9/2016	9:22	36	32.5	54	15.5	33.3	2292.6	262.27	13112.3		
	2/9/2016 11:42	2/9/2016	11:42	34.5	31	58	18	38.0	4992.4	571.13	13683.4		
	2/9/2016 13:38	2/9/2016	13:38	34.5	30.5	60	19	40.0	4523.2	517.45	14200.9		
	2/9/2016 15:30	2/9/2016	15:30	34	30	61	19	39.8	4467.0	511.03	14711.9		
	2/9/2016 17:07	2/9/2016	17:07	33.5	29.5	60	20	41.7	3949.7	451.84	15163.7		
	2/9/2016 17:10	2/9/2016	17:10		25				125.0	14.30	15178.0		

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-169 Event 10	2/11/2016 7:36	2/11/2016	7:36	30	30	37	0	0.0			15178.0
	2/11/2016 7:52	2/11/2016	7:52	27.5	27	42	7	13.9	111.1	12.71	15190.7
	2/11/2016 7:53	2/11/2016	7:53	34	33	42	14	29.9	21.9	2.50	15193.2
	2/11/2016 9:07	2/11/2016	9:07	35.5	32	55	18	38.5	2529.2	289.33	15482.6
	2/11/2016 12:45	2/11/2016	12:45	35	30.5	62	20	42.2	8799.7	1006.68	16489.3
	2/11/2016 13:45	2/11/2016	13:45	34	30	64	20	41.7	2519.2	288.20	16777.5
	2/11/2016 15:05	2/11/2016	15:05	34	29.5	65	20	41.7	3336.6	381.71	17159.2
	2/11/2016 16:06	2/11/2016	16:06	34	29.5	66	20.5	42.7	2573.4	294.40	17453.6
	2/11/2016 16:09	2/11/2016	16:09		25				128.1	14.65	17468.2
Total CO ₂ Mass (lbs):											17468.2

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-170 Event 1	11/11/2015 10:25	11/11/2015	10:25	19	18	76	0	0.0			0
	11/11/2015 10:49	11/11/2015	10:49	20	18.5	77	0	0.0	0.0	0.00	0.0
	11/11/2015 10:50	11/11/2015	10:50	22	21.5	77	0	0.0	0.0	0.00	0.0
	11/11/2015 10:58	11/11/2015	10:58	24	23.5	77	0	0.0	0.0	0.00	0.0
	11/11/2015 11:20	11/11/2015	11:20	26	26	78	<2	0.0	0.0	0.00	0.0
	11/11/2015 11:25	11/11/2015	11:25	28	28	78	4	7.7	19.3	2.20	2.2
	11/11/2015 11:29	11/11/2015	11:29	30	29	79	5	9.8	35.1	4.01	6.2
	11/11/2015 11:33	11/11/2015	11:33	32	30.5	79	7	14.1	47.9	5.48	11.7
	11/11/2015 11:37	11/11/2015	11:37	35	33	79	10	20.8	69.7	7.98	19.7
	11/11/2015 12:30	11/11/2015	12:30	35	32.5	79	12	24.9	1211.1	138.55	158.2
	11/11/2015 14:50	11/11/2015	14:50	35	31.5	80	14	29.1	3778.9	432.30	590.5
	11/11/2015 16:01	11/11/2015	16:01	35	31	80	14	29.1	2062.9	236.00	826.5
	11/11/2015 17:00	11/11/2015	17:00	35	31	77	14	29.1	1716.8	196.40	1022.9
11/11/2015 17:01	11/11/2015	17:01		26				29.1	3.33	1026.3	
SW-170 Event 2	11/18/2015 8:14	11/18/2015	8:14	27	28.5	75	0	0.0			1026.3
	11/18/2015 9:19	11/18/2015	9:19	27	26	76	<2	0.0	0.0	0.00	1026.3
	11/18/2015 9:20	11/18/2015	9:20	32	30	76	10	20.2	10.1	1.15	1027.4
	11/18/2015 10:52	11/18/2015	10:52	34	31	77	10	20.6	1876.2	214.63	1242.0
	11/18/2015 12:03	11/18/2015	12:03	34	30.5	79	12	24.7	1607.2	183.86	1425.9
	11/18/2015 13:13	11/18/2015	13:13	34	30.5	76	12.5	25.8	1765.7	201.99	1627.9
	11/18/2015 15:09	11/18/2015	15:09	33	30	75	14	28.6	3153.4	360.75	1988.6
	11/18/2015 16:57	11/18/2015	16:57	33	30	74	14	28.6	3089.6	353.45	2342.1
	11/18/2015 16:58	11/18/2015	16:58		24				28.6	3.27	2345.4
SW-170 Event 3	12/4/2015 7:57	12/4/2015	7:57	24.5	24	56	0	0.0			2345.4
	12/4/2015 8:24	12/4/2015	8:24	24.5	23	56	0	0.0	0.0	0.00	2345.4
	12/4/2015 8:26	12/4/2015	8:26	33	31.5	56	6	12.5	12.5	1.43	2346.8
	12/4/2015 9:31	12/4/2015	9:31	33	31	63	7	14.5	876.0	100.21	2447.0
	12/4/2015 10:49	12/4/2015	10:49	32	30	67	8.5	17.3	1239.2	141.77	2588.8
	12/4/2015 12:18	12/4/2015	12:18	31	29	69	9	18.1	1575.4	180.22	2769.0
	12/4/2015 12:19	12/4/2015	12:19						18.1	2.07	2771.1
SW-170 Event 4	12/8/2015 8:19	12/8/2015	8:19	30.5	29	64	0	0.0			2771.1
	12/8/2015 8:46	12/8/2015	8:46	30	28	65	0	0.0	0.0	0.00	2771.1
	12/8/2015 8:47	12/8/2015	8:47	34	33	65	4	8.3	4.2	0.48	2771.5
	12/8/2015 10:31	12/8/2015	10:31	33.5	31.5	74	7	14.4	1181.6	135.18	2906.7
	12/8/2015 11:40	12/8/2015	11:40	33	31	76	8.5	17.3	1094.7	125.23	3032.0
	12/8/2015 11:42	12/8/2015	11:42	35	33	76	12	25.0	42.3	4.84	3036.8
	12/8/2015 12:44	12/8/2015	12:44	35	32.5	76	12	25.0	1550.1	177.33	3214.1
	12/8/2015 14:14	12/8/2015	14:14	34.5	31.5	76	13.5	28.0	2384.2	272.76	3486.9
	12/8/2015 15:42	12/8/2015	15:42	34	31	74	14	28.9	2503.9	286.44	3773.3
	12/8/2015 16:57	12/8/2015	16:57	33	30	70	14.5	29.8	2200.6	251.75	4025.1
	12/8/2015 17:00	12/8/2015	17:00		23.5				89.3	10.21	4035.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-170 Event 5	12/16/2015 7:55	12/16/2015	7:55	29.5	28	68	0	0.0			4035.3
	12/16/2015 8:26	12/16/2015	8:26	28.5	27	68	0	0.0	0.0	0.00	4035.3
	12/16/2015 8:27	12/16/2015	8:27	35	33	68	7	14.7	7.3	0.84	4036.1
	12/16/2015 9:30	12/16/2015	9:30	35	32.5	70	7.5	15.7	958.1	109.61	4145.7
	12/16/2015 11:18	12/16/2015	11:18	33	30.5	72	8.5	17.4	1788.9	204.65	4350.4
	12/16/2015 12:36	12/16/2015	12:36	32.5	30.5	74	9	18.3	1392.8	159.33	4509.7
	12/16/2015 14:40	12/16/2015	14:40	32	29.5	73	10.5	21.3	2452.6	280.58	4790.3
	12/16/2015 15:59	12/16/2015	15:59	34	30.5	72	13	26.9	1902.6	217.66	5008.0
	12/16/2015 17:19	12/16/2015	17:19	33.5	30	71	14	28.9	2230.7	255.20	5263.2
12/16/2015 17:22	12/16/2015	17:22		22.5				86.6	9.90	5273.1	
SW-170 Event 6	12/18/2015 8:01	12/18/2015	8:01	28	26	68	0	0.0			5273.1
	12/18/2015 8:31	12/18/2015	8:31	27.5	24.5	66	0	0.0	0.0	0.00	5273.1
	12/18/2015 8:32	12/18/2015	8:32	33	29.5	66	6	12.4	6.2	0.71	5273.8
	12/18/2015 9:33	12/18/2015	9:33	33.5	29.5	67	8	16.6	882.0	100.90	5374.7
	12/18/2015 10:33	12/18/2015	10:33	33	29.5	70	9	18.5	1050.8	120.21	5494.9
	12/18/2015 11:36	12/18/2015	11:36	32	28	71	10	20.3	1220.8	139.66	5634.5
	12/18/2015 12:36	12/18/2015	12:36	32	28.5	72	10	20.3	1216.5	139.16	5773.7
	12/18/2015 13:31	12/18/2015	13:31	32	28	71	10	20.3	1115.1	127.57	5901.3
	12/18/2015 14:33	12/18/2015	14:33	33	28.5	70	11	22.6	1328.7	152.00	6053.3
12/18/2015 14:37	12/18/2015	14:37		22				90.3	10.33	6063.6	
SW-170 Event 7	1/6/2016 7:55	1/6/2016	7:55	27	25.5	49	0	0.0			6063.6
	1/6/2016 8:22	1/6/2016	8:22	26.5	25	47	0	0.0	0.0	0.00	6063.6
	1/6/2016 8:23	1/6/2016	8:23	33	32.5	47	6	12.6	6.3	0.72	6064.3
	1/6/2016 10:29	1/6/2016	10:29	33	31	57	7	14.6	1710.7	195.71	6260.0
	1/6/2016 11:57	1/6/2016	11:57	32	30	60	8	16.4	1362.1	155.83	6415.9
	1/6/2016 13:47	1/6/2016	13:47	32	29	60	10	20.5	2030.1	232.24	6648.1
	1/6/2016 17:09	1/6/2016	17:09	32	29	59	12	24.6	4558.9	521.53	7169.6
	1/7/2016 7:47	1/7/2016	7:47	30	25	57	16	32.2	24942.1	2853.37	10023.0
	1/7/2016 7:48	1/7/2016	7:48		19				32.2	3.68	10026.7
SW-170 Event 8	1/13/2016 8:10	1/13/2016	8:10	25	24	41	0	0.0			10026.7
	1/13/2016 8:28	1/13/2016	8:28	26.5	23.5	46	0	0.0	0.0	0.00	10026.7
	1/13/2016 8:29	1/13/2016	8:29	34	31.5	46	8	17.0	8.5	0.97	10027.7
	1/13/2016 10:07	1/13/2016	10:07	33.5	29.5	59	10	20.9	1855.0	212.21	10239.9
	1/13/2016 11:39	1/13/2016	11:39	32.5	28	64	11.5	23.6	2045.8	234.04	10473.9
	1/13/2016 14:07	1/13/2016	14:07	32.5	27.5	64	13	26.7	3723.0	425.91	10899.8
	1/13/2016 15:37	1/13/2016	15:37	32	27.5	63	14	28.6	2489.3	284.78	11184.6
	1/13/2016 17:10	1/13/2016	17:10	32	27	60	14	28.7	2665.9	304.98	11489.6
	1/13/2016 17:11	1/13/2016	17:11		22				28.7	3.28	11492.9
SW-170 Event 9	1/20/2016 7:48	1/20/2016	7:48	28	26	34	0	0.0			11492.9
	1/20/2016 8:19	1/20/2016	8:19	27	24	45	0	0.0	0.0	0.00	11492.9
	1/20/2016 8:20	1/20/2016	8:20	34	30	45	9	19.1	9.6	1.09	11494.0
	1/20/2016 9:39	1/20/2016	9:39	33.5	29.5	57	11	23.0	1664.3	190.39	11684.4
	1/20/2016 11:04	1/20/2016	11:04	33	29.5	62	12	24.8	2032.1	232.47	11916.8
	1/20/2016 12:33	1/20/2016	12:33	32.5	28.5	63	13	26.7	2293.8	262.41	12179.2
	1/20/2016 14:23	1/20/2016	14:23	31.5	27.5	63	13.5	27.4	2979.5	340.85	12520.1
	1/20/2016 15:55	1/20/2016	15:55	31.5	27.5	64	13.5	27.4	2524.1	288.76	12808.9
	1/20/2016 17:09	1/20/2016	17:09	31.5	28	61	14	28.5	2070.0	236.81	13045.7
1/20/2016 17:10	1/20/2016	17:10		23				28.5	3.26	13048.9	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-170 Event 10	1/27/2016 7:26	1/27/2016	7:26	30	28	60	<2	0.0			13048.9
	1/27/2016 7:40	1/27/2016	7:40	29	26	60	4	7.9	55.5	6.35	13055.3
	1/27/2016 7:41	1/27/2016	7:41	37	33	60	12	25.9	16.9	1.94	13057.2
	1/27/2016 9:15	1/27/2016	9:15	36	31.5	61	14.5	31.0	2673.6	305.85	13363.1
	1/27/2016 10:57	1/27/2016	10:57	35.5	30	70	16	33.7	3298.3	377.32	13740.4
	1/27/2016 12:12	1/27/2016	12:12	35	29.5	70	16.5	34.6	2560.5	292.92	14033.3
	1/27/2016 14:00	1/27/2016	14:00	34.5	29	68	17.5	36.6	3841.3	439.45	14472.7
	1/27/2016 16:01	1/27/2016	16:01	34	28.5	70	18.5	38.4	4533.2	518.59	14991.3
	1/27/2016 17:03	1/27/2016	17:03	33.5	28.5	66	18.5	38.3	2377.4	271.98	15263.3
	1/27/2016 17:07	1/27/2016	17:07		22				153.3	17.54	15280.9
SW-170 Event 11	2/2/2016 8:30	2/2/2016	8:30	26	26	63	0	0.0			15280.9
	2/2/2016 8:49	2/2/2016	8:49	25	24.5	64	<2	0.0	0.0	0.00	15280.9
	2/2/2016 8:50	2/2/2016	8:50	33	31.5	64	10	20.6	10.3	1.18	15282.0
	2/2/2016 10:16	2/2/2016	10:16	34	31	72	11.5	23.8	1911.4	218.66	15500.7
	2/2/2016 12:23	2/2/2016	12:23	33	30	74	14	28.6	3329.1	380.85	15881.6
	2/2/2016 14:24	2/2/2016	14:24	32.5	29.5	74	14.5	29.5	3515.5	402.17	16283.7
	2/2/2016 15:42	2/2/2016	15:42	32	29	80	15	30.2	2326.3	266.13	16549.9
	2/2/2016 17:07	2/2/2016	17:07	31.5	27.5	72	15.5	31.2	2609.6	298.54	16848.4
	2/2/2016 17:08	2/2/2016	17:08		22.5				31.2	3.57	16852.0
	SW-170 Event 12	2/10/2016 7:35	2/10/2016	7:35	30	29	39	0	0.0		
2/10/2016 7:45		2/10/2016	7:45	30	27	42	3	6.1	30.6	3.50	16855.5
2/10/2016 7:46		2/10/2016	7:46	37	35	42	10	22.0	14.1	1.61	16857.1
2/10/2016 9:15		2/10/2016	9:15	36	33	50	13.5	29.2	2276.4	260.42	17117.5
2/10/2016 11:26		2/10/2016	11:26	35.5	32	53	15	32.1	4014.8	459.29	17576.8
2/10/2016 13:13		2/10/2016	13:13	35	31	56	17	36.1	3652.0	417.79	17994.6
2/10/2016 15:01		2/10/2016	15:01	35	30.5	58	18	38.2	4012.2	458.99	18453.6
2/10/2016 16:19		2/10/2016	16:19	33.5	29.5	58	19.5	40.7	3076.7	351.97	18805.5
2/10/2016 16:20		2/10/2016	16:20		23				40.7	4.66	18810.2
SW-170 Event 13	2/26/2016 7:07	2/26/2016	7:07	32	31	47	<2	0.0			18810.2
	2/26/2016 7:18	2/26/2016	7:18	36	34	47	7	15.2	83.4	9.54	18819.7
	2/26/2016 8:35	2/26/2016	8:35	35	33	57	12	25.5	1564.7	179.00	18998.7
	2/26/2016 10:18	2/26/2016	10:18	34	31	60	14	29.3	2822.3	322.87	19321.6
	2/26/2016 11:11	2/26/2016	11:11	34	30	7	15	33.2	1658.0	189.68	19511.3
	2/26/2016 11:12	2/26/2016	11:12		22.5				33.2	3.80	19515.1
SW-170 Event 14	2/29/2016 8:03	2/29/2016	8:03	32	31	56	3	6.2			19515.1
	2/29/2016 8:35	2/29/2016	8:35	31	28	60	6	12.2	293.5	33.58	19548.7
	2/29/2016 8:36	2/29/2016	8:36	36	34	60	12	25.7	18.9	2.16	19550.8
	2/29/2016 10:34	2/29/2016	10:34	36.5	33	69	16	34.1	3524.1	403.16	19954.0
	2/29/2016 11:08	2/29/2016	11:08	36	32	70	16.5	34.9	1173.1	134.20	20088.2
	2/29/2016 11:09	2/29/2016	11:09		25				34.9	4.00	20092.2
Total CO ₂ Mass (lbs):											20092.2

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-171 Event 1	10/23/2015 8:10	10/23/2015	8:10	20	22	70	0	0.0				0
	10/23/2015 8:28	10/23/2015	8:28	20	22	71	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 8:29	10/23/2015	8:29	22	24	71	0	0.0	0.0	0.00	0.0	0.0
	10/23/2015 8:48	10/23/2015	8:48	22	24	72	<2	0.0	0.0	0.00	0.0	0.0
	10/23/2015 8:50	10/23/2015	8:50	24	25	72	5	9.2	9.2	1.05	1.1	1.1
	10/23/2015 9:08	10/23/2015	9:08	24	25	75	4	7.3	149.0	17.05	18.1	18.1
	10/23/2015 9:10	10/23/2015	9:10	26	27	75	8	15.1	22.4	2.57	20.7	20.7
	10/23/2015 9:35	10/23/2015	9:35	26	27	78	7	13.2	352.9	40.37	61.0	61.0
	10/23/2015 9:36	10/23/2015	9:36	28	28	78	10	19.3	16.2	1.85	62.9	62.9
	10/23/2015 10:34	10/23/2015	10:34	28	28	78	9	17.3	1060.9	121.36	184.3	184.3
	10/23/2015 10:35	10/23/2015	10:35	30	29.5	78	11	21.7	19.5	2.23	186.5	186.5
	10/23/2015 11:32	10/23/2015	11:32	30	29	78	11	21.7	1235.5	141.34	327.8	327.8
	10/23/2015 12:47	10/23/2015	12:47	30	29	80	12	23.6	1697.9	194.24	522.1	522.1
10/23/2015 12:48	10/23/2015	12:48		22				23.6	2.70	524.8	524.8	
SW-171 Event 2	11/16/2015 8:04	11/16/2015	8:04	27	27	65	0	0.0				524.8
	11/16/2015 8:37	11/16/2015	8:37	27	25	70	<2	0.0	0.0	0.00	524.8	524.8
	11/16/2015 8:38	11/16/2015	8:38	35	33	70	10	21.0	10.5	1.20	526.0	526.0
	11/16/2015 10:03	11/16/2015	10:03	35	32.5	76	12	25.0	1953.2	223.44	749.4	749.4
	11/16/2015 10:53	11/16/2015	10:53	35	31	78	12.5	26.0	1274.8	145.84	895.2	895.2
	11/16/2015 12:15	11/16/2015	12:15	35	31	79	13.5	28.0	2215.5	253.46	1148.7	1148.7
	11/16/2015 14:38	11/16/2015	14:38	34	30	79	14	28.8	4063.3	464.84	1613.5	1613.5
	11/16/2015 14:39	11/16/2015	14:39	37	32.5	79	18	38.1	33.5	3.83	1617.4	1617.4
	11/16/2015 17:20	11/16/2015	17:20	37	32	71	18	38.4	6166.1	705.40	2322.8	2322.8
	11/16/2015 17:21	11/16/2015	17:21		25				38.4	4.40	2327.2	2327.2
SW-171 Event 3	11/24/2015 7:24	11/24/2015	7:24	26	25	48	0	0.0				2327.2
	11/24/2015 7:57	11/24/2015	7:57	25	22.5	53	4	7.6	125.5	14.36	2341.5	2341.5
	11/24/2015 8:01	11/24/2015	8:01	30	28	53	10	20.2	55.6	6.36	2347.9	2347.9
	11/24/2015 8:55	11/24/2015	8:55	30	27	61	10	20.0	1086.2	124.27	2472.2	2472.2
	11/24/2015 10:27	11/24/2015	10:27	28	26	66	10.5	20.5	1862.4	213.06	2685.2	2685.2
	11/24/2015 10:28	11/24/2015	10:28	31	28.5	66	14.5	29.2	24.8	2.84	2688.1	2688.1
	11/24/2015 11:33	11/24/2015	11:33	31	27	68	13.5	27.2	1832.9	209.69	2897.7	2897.7
	11/24/2015 11:34	11/24/2015	11:34		22.5				27.2	3.11	2900.9	2900.9
SW-171 Event 4	11/30/2015 12:18	11/30/2015	12:18	27	25	94	0	0.0				2900.9
	11/30/2015 12:51	11/30/2015	12:51	25.5	23.5	91	4	7.4	121.7	13.93	2914.8	2914.8
	11/30/2015 12:53	11/30/2015	12:53	30	28	91	10	19.5	26.8	3.07	2917.9	2917.9
	11/30/2015 14:40	11/30/2015	14:40	30.5	27.5	84	10	19.7	2095.4	239.72	3157.6	3157.6
	11/30/2015 15:59	11/30/2015	15:59	30.5	27	80	10.5	20.8	1598.6	182.88	3340.5	3340.5
	11/30/2015 17:07	11/30/2015	17:07	30	26.5	74	11	21.8	1445.9	165.41	3505.9	3505.9
	11/30/2015 17:08	11/30/2015	17:08		21				21.8	2.49	3508.4	3508.4
SW-171 Event 5	12/15/2015 7:58	12/15/2015	7:58	30	28	68	0	0.0				3508.4
	12/15/2015 8:27	12/15/2015	8:27	28	26	69	6	11.7	169.0	19.33	3527.7	3527.7
	12/15/2015 8:28	12/15/2015	8:28	34	32	69	12	24.9	18.3	2.09	3529.8	3529.8
	12/15/2015 9:56	12/15/2015	9:56	34	30.5	74	14.5	30.0	2414.3	276.20	3806.0	3806.0
	12/15/2015 11:39	12/15/2015	11:39	34	30.5	78	16	32.9	3238.6	370.50	4176.5	4176.5
	12/15/2015 13:33	12/15/2015	13:33	33	30	80	16.5	33.5	3788.6	433.41	4609.9	4609.9
	12/15/2015 14:58	12/15/2015	14:58	33	29.5	80	17	34.6	2893.9	331.06	4940.9	4940.9
	12/15/2015 16:14	12/15/2015	16:14	32	28.5	78	18	36.3	2691.1	307.86	5248.8	5248.8
	12/15/2015 17:16	12/15/2015	17:16	32.5	28.5	74	19	38.6	2321.9	265.63	5514.4	5514.4
	12/15/2015 17:18	12/15/2015	17:18		22.5				77.3	8.84	5523.3	5523.3
SW-171 Event 6	1/25/2016 8:00	1/25/2016	8:00	29	29	40	0	0.0				5523.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/25/2016 8:27	1/25/2016	8:27	27.5	27	49	5.5	10.8		146.2	16.73	5540.0
	1/25/2016 8:28	1/25/2016	8:28	32	30	49	10.5	21.8		16.3	1.86	5541.9
	1/25/2016 9:20	1/25/2016	9:20	31	30	58	10.5	21.3		1120.9	128.23	5670.1
	1/25/2016 10:59	1/25/2016	10:59	30	29	64	11.5	23.0		2193.3	250.92	5921.0
	1/25/2016 12:18	1/25/2016	12:18	29.5	28.5	66	12.5	24.8		1886.1	215.77	6136.8
	1/25/2016 14:02	1/25/2016	14:02	29.5	28	66	14	27.8		2731.6	312.49	6449.3
	1/25/2016 16:22	1/25/2016	16:22	29.5	27.5	64	14.5	28.8		3958.6	452.86	6902.1
	1/25/2016 17:07	1/25/2016	17:07	29.5	27.5	60	14.5	28.9		1298.6	148.55	7050.7
	1/26/2016 8:40	1/26/2016	8:40	28	25.5	58	18	35.3		29974.5	3429.09	10479.8
	1/26/2016 8:42	1/26/2016	8:42		21					70.7	8.09	10487.9
<u>SW-171 Event 7</u>	1/28/2016 7:24	1/28/2016	7:24	26	26.5	59	0	0.0				10487.9
	1/28/2016 7:44	1/28/2016	7:44	24	24	60	4.5	8.4		83.9	9.60	10497.5
	1/28/2016 7:45	1/28/2016	7:45	33	32	60	13	26.9		17.7	2.02	10499.5
	1/28/2016 9:46	1/28/2016	9:46	32	30	60	18	36.9		3863.3	441.96	10941.5
	1/28/2016 11:47	1/28/2016	11:47	31.5	28	62	19	38.7		4572.7	523.12	11464.6
	1/28/2016 14:13	1/28/2016	14:13	31.5	28	64	20	40.6		5788.7	662.23	12126.8
	1/28/2016 15:18	1/28/2016	15:18	31.5	28	62	20	40.7		2643.3	302.39	12429.2
	1/28/2016 17:01	1/28/2016	17:01	31.5	28	60	20	40.8		4197.0	480.13	12909.3
	1/28/2016 17:02	1/28/2016	17:02		22					40.8	4.67	12914.0
<u>SW-171 Event 8</u>	2/15/2016 7:55	2/15/2016	7:55	31.5	32	50	<2	0.0				12914.0
	2/15/2016 8:38	2/15/2016	8:38	30	29	55	9	18.1		390.0	44.62	12958.6
	2/15/2016 8:42	2/15/2016	8:42	35.5	34	55	18	38.5		113.3	12.96	12971.6
	2/15/2016 10:14	2/15/2016	10:14	36.5	33.5	60	19	40.8		3648.3	417.37	13388.9
	2/15/2016 11:24	2/15/2016	11:24	36.5	33	61	20	42.9		2931.6	335.37	13724.3
	2/15/2016 12:32	2/15/2016	12:32	36	32	64	20.5	43.7		2944.0	336.79	14061.1
	2/15/2016 14:24	2/15/2016	14:24	36	32	67	21	44.6		4941.6	565.32	14626.4
	2/15/2016 15:54	2/15/2016	15:54	36	31.5	66	22	46.8		4110.5	470.24	15096.7
	2/15/2016 16:58	2/15/2016	16:58	35	31.5	64	22	46.4		2980.3	340.95	15437.6
	2/15/2016 17:00	2/15/2016	17:00		24					92.8	10.61	15448.2
<u>SW-171 Event 9</u>	2/17/2016 7:29	2/17/2016	7:29	30.5	31	52	6	12.2				15448.2
	2/17/2016 8:18	2/17/2016	8:18	29.5	28	58	12	24.0		886.3	101.39	15549.6
	2/17/2016 8:19	2/17/2016	8:19	32	31	58	17	34.9		29.5	3.37	15553.0
	2/17/2016 10:24	2/17/2016	10:24	33	30	67	18	37.1		4498.8	514.67	16067.7
	2/17/2016 12:53	2/17/2016	12:53	32	28.5	72	18.5	37.5		5553.3	635.30	16702.9
	2/17/2016 14:04	2/17/2016	14:04	32	28	72	18.5	37.5		2661.7	304.50	17007.5
	2/17/2016 15:07	2/17/2016	15:07	32	28	73	19	38.5		2392.6	273.71	17281.2
	2/17/2016 16:24	2/17/2016	16:24	32	27.5	71	19.5	39.6		3003.8	343.63	17624.8
	2/17/2016 16:25	2/17/2016	16:25		22.5					39.6	4.53	17629.3
<u>SW-171 Event 10</u>	2/19/2016 7:14	2/19/2016	7:14	31	31.5	50	5	10.2				17629.3
	2/19/2016 7:27	2/19/2016	7:27	30.5	30	52	8.5	17.3		178.9	20.47	17649.8
	2/19/2016 7:28	2/19/2016	7:28	34	33	52	12	25.3		21.3	2.44	17652.2
	2/19/2016 8:51	2/19/2016	8:51	33	31	62	16	33.1		2425.2	277.45	17929.7
	2/19/2016 9:27	2/19/2016	9:27	33	30	62	18	37.2		1266.0	144.83	18074.5
	2/19/2016 9:31	2/19/2016	9:31		24					148.9	17.04	18091.5

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-171 Event 11	2/22/2016 7:19	2/22/2016	7:19	30	31	62	3	6.0			18091.5
	2/22/2016 7:35	2/22/2016	7:35	29	28	63	6	11.9	142.9	16.35	18107.9
	2/22/2016 7:38	2/22/2016	7:38	36	34	63	15	32.0	65.8	7.52	18115.4
	2/22/2016 9:04	2/22/2016	9:04	35	33	65	18	37.9	3005.0	343.77	18459.2
	2/22/2016 11:19	2/22/2016	11:19	35	31	72	19.5	40.8	5311.8	607.67	19066.8
	2/22/2016 13:42	2/22/2016	13:42	34	30	72	20.5	42.4	5950.3	680.71	19747.6
	2/22/2016 15:01	2/22/2016	15:01	34	30	74	20.5	42.4	3349.2	383.15	20130.7
	2/22/2016 16:54	2/22/2016	16:54	33	29.5	70	21.5	44.1	4886.1	558.97	20689.7
	2/22/2016 16:55	2/22/2016	16:55		24				44.1	5.05	20694.7
Total CO ₂ Mass (lbs):											20694.7

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-172 Event 1	10/20/2015 10:42	10/20/2015	10:42	10	10	73	0	0.0				0
	10/20/2015 10:54	10/20/2015	10:54	10	11	73	0	0.0	0.0	0.00	0.0	0.0
	10/20/2015 10:55	10/20/2015	10:55	20	21	73	0	0.0	0.0	0.00	0.0	0.0
	10/20/2015 13:49	10/20/2015	13:49	20	21	80	0	0.0	0.0	0.00	0.0	0.0
	10/20/2015 13:52	10/20/2015	13:52	24	24	80	0	0.0	0.0	0.00	0.0	0.0
	10/20/2015 15:04	10/20/2015	15:04	24	24	80	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 15:05	10/20/2015	15:05	27	28	80	9.5	18.0	9.0	1.03	1.0	1.0
	10/20/2015 16:23	10/20/2015	16:23	27	24	80	8.5	16.1	1332.9	152.48	153.5	153.5
	10/20/2015 16:24	10/20/2015	16:24	29	30	80	10	19.4	17.8	2.04	155.6	155.6
	10/20/2015 17:00	10/20/2015	17:00	29	30	80	10	19.4	700.0	80.07	235.6	235.6
10/20/2015 17:01	10/20/2015	17:01		25				19.4	2.22	237.9	237.9	
SW-172 Event 2	11/23/2015 8:00	11/23/2015	8:00	24.5	26	49	0	0.0				237.9
	11/23/2015 8:25	11/23/2015	8:25	24.5	25	51	0	0.0	0.0	0.00	0.00	237.9
	11/23/2015 8:28	11/23/2015	8:28	27	28	51	5	9.8	14.7	1.68	239.5	239.5
	11/23/2015 9:40	11/23/2015	9:40	27	27	62	6	11.6	769.0	87.97	327.5	327.5
	11/23/2015 11:50	11/23/2015	11:50	27	26.5	70	7	13.4	1625.8	185.99	513.5	513.5
	11/23/2015 14:14	11/23/2015	14:14	26.5	26.5	72	7	13.3	1924.7	220.18	733.7	733.7
	11/23/2015 14:18	11/23/2015	14:18	30	29	72	13	25.8	78.2	8.94	742.6	742.6
	11/23/2015 15:39	11/23/2015	15:39	30	29	71	13	25.8	2088.0	238.87	981.5	981.5
	11/23/2015 17:14	11/23/2015	17:14	30	29	64	13	26.0	2458.5	281.26	1262.7	1262.7
	11/23/2015 17:18	11/23/2015	17:18		24				103.9	11.88	1274.6	1274.6
SW-172 Event 3	12/1/2015 7:51	12/1/2015	7:51	24.5	25.5	67	0	0.0				1274.6
	12/1/2015 8:11	12/1/2015	8:11	24	24.5	67	0	0.0	0.0	0.00	0.00	1274.6
	12/1/2015 8:16	12/1/2015	8:16	31	31	67	9	18.1	45.3	5.18	1279.8	1279.8
	12/1/2015 9:23	12/1/2015	9:23	31	30	70	10	20.1	1280.0	146.43	1426.2	1426.2
	12/1/2015 10:57	12/1/2015	10:57	31	29.5	78	12	23.9	2067.8	236.55	1662.8	1662.8
	12/1/2015 12:12	12/1/2015	12:12	30.5	29	80	12.5	24.7	1823.8	208.65	1871.4	1871.4
	12/1/2015 13:58	12/1/2015	13:58	30	28.5	80	14	27.5	2769.6	316.85	2188.3	2188.3
	12/1/2015 15:30	12/1/2015	15:30	30	28	78	14.5	28.6	2580.9	295.26	2483.6	2483.6
	12/1/2015 16:57	12/1/2015	16:57	30	28	72	15.5	30.7	2579.2	295.06	2778.6	2778.6
	12/1/2015 16:58	12/1/2015	16:58		23				30.7	3.51	2782.1	2782.1
SW-172 Event 4	12/8/2015 8:07	12/8/2015	8:07	26	27	52	0	0.0				2782.1
	12/8/2015 8:39	12/8/2015	8:39	25	25	61	3	5.7	90.6	10.36	2792.5	2792.5
	12/8/2015 8:40	12/8/2015	8:40	32	31.5	61	11	22.5	14.1	1.61	2794.1	2794.1
	12/8/2015 10:19	12/8/2015	10:19	32.5	30.5	74	13	26.4	2424.0	277.30	3071.4	3071.4
	12/8/2015 11:33	12/8/2015	11:33	32	30	76	14	28.3	2023.7	231.52	3302.9	3302.9
	12/8/2015 12:40	12/8/2015	12:40	31.5	29	76	14.5	29.1	1921.9	219.87	3522.8	3522.8
	12/8/2015 14:10	12/8/2015	14:10	31	28.5	76	15.5	30.9	2702.6	309.18	3832.0	3832.0
	12/8/2015 15:36	12/8/2015	15:36	31	28.5	74	16	32.0	2707.0	309.68	4141.6	4141.6
	12/8/2015 16:50	12/8/2015	16:50	31	28	68	16.5	33.2	2412.7	276.01	4417.7	4417.7
	12/8/2015 16:52	12/8/2015	16:52		22.5				66.4	7.60	4425.3	4425.3

SW-172 Event 5	12/18/2015 7:58	12/18/2015 7:58	29	29	68	0	0.0			4425.3
	12/18/2015 8:27	12/18/2015 8:27	27	27	67	6	11.5	167.3	19.14	4444.4
	12/18/2015 8:28	12/18/2015 8:28	32	31	67	12	24.4	18.0	2.06	4446.4
	12/18/2015 9:29	12/18/2015 9:29	32	30.5	68	13	26.4	1552.0	177.54	4624.0
	12/18/2015 10:28	12/18/2015 10:28	31.5	29.5	74	13.5	27.2	1581.3	180.90	4804.9
	12/18/2015 11:36	12/18/2015 11:36	30.5	29	77	14	27.8	1867.5	213.64	5018.5
	12/18/2015 12:34	12/18/2015 12:34	30.5	28	75	14	27.8	1612.2	184.44	5203.0
	12/18/2015 13:29	12/18/2015 13:29	30	28	75	14.5	28.7	1553.2	177.68	5380.6
	12/18/2015 14:27	12/18/2015 14:27	32	29	73	15	30.4	1711.6	195.81	5576.5
	12/18/2015 14:28	12/18/2015 14:28		22.5				30.4	3.47	5579.9
SW-172 Event 6	12/21/2015 7:32	12/21/2015 7:32	29	29	60	0	0.0			5579.9
	12/21/2015 7:57	12/21/2015 7:57	27.5	27	62	5	9.7	121.5	13.90	5593.8
	12/21/2015 7:58	12/21/2015 7:58	32	31	62	10	20.5	15.1	1.73	5595.6
	12/21/2015 9:18	12/21/2015 9:18	32	30.5	70	12	24.4	1793.2	205.14	5800.7
	12/21/2015 11:35	12/21/2015 11:35	31	29	74	14	28.0	3587.4	410.40	6211.1
	12/21/2015 13:00	12/21/2015 13:00	30.5	28.5	80	16	31.6	2535.2	290.03	6501.1
	12/21/2015 14:21	12/21/2015 14:21	30.5	27.5	72	16	31.9	2573.2	294.38	6795.5
	12/21/2015 15:10	12/21/2015 15:10	30	27.5	72	16	31.7	1558.2	178.26	6973.8
	12/21/2015 16:03	12/21/2015 16:03	29.5	27.5	71	16	31.6	1676.7	191.82	7165.6
	12/21/2015 16:55	12/21/2015 16:55	30	27.5	70	16	31.8	1646.7	188.38	7354.0
	12/21/2015 16:57	12/21/2015 16:57		22				63.5	7.27	7361.2
	SW-172 Event 7	1/6/2016 7:59	1/6/2016 7:59	27	27	45	0	0.0		
1/6/2016 8:26		1/6/2016 8:26	25	26	49	4	7.6	103.1	11.79	7373.0
1/6/2016 8:27		1/6/2016 8:27	32	31.5	49	14	29.0	18.3	2.10	7375.1
1/6/2016 10:34		1/6/2016 10:34	32.5	31	59	16	33.0	3940.1	450.75	7825.9
1/6/2016 12:05		1/6/2016 12:05	31	29	62	16	32.4	2976.0	340.45	8166.3
1/6/2016 13:52		1/6/2016 13:52	31	29	62	17	34.4	3573.6	408.82	8575.1
1/6/2016 17:12		1/6/2016 17:12	32	29	59	19.5	40.0	7443.6	851.55	9426.7
1/6/2016 17:14		1/6/2016 17:14		23				80.1	9.16	9435.8
SW-172 Event 8		1/15/2016 7:07	1/15/2016 7:07	27.5	28	65	0	0.0		
	1/15/2016 7:37	1/15/2016 7:37	26.5	26	65	6	11.5	172.3	19.71	9455.6
	1/15/2016 7:39	1/15/2016 7:39	33	31	65	14	28.9	40.4	4.62	9460.2
	1/15/2016 8:48	1/15/2016 8:48	31.5	29	65	16.5	33.5	2151.4	246.12	9706.3
	1/15/2016 10:28	1/15/2016 10:28	31	28	65	17	34.3	3389.6	387.77	10094.1
	1/15/2016 11:18	1/15/2016 11:18	31	27	65	17.5	35.3	1740.6	199.13	10293.2
	1/15/2016 11:19	1/15/2016 11:19		22				35.3	4.04	10297.2
SW-172 Event 9	1/18/2016 8:21	1/18/2016 8:21	26	26	46	0	0.0			10297.2
	1/18/2016 9:05	1/18/2016 9:05	24.5	25	54	5	9.4	207.6	23.75	10321.0
	1/18/2016 9:06	1/18/2016 9:06	32.5	30	54	15	31.1	20.3	2.32	10323.3
	1/18/2016 10:37	1/18/2016 10:37	33	30.5	62	15.5	32.1	2874.5	328.85	10652.1
	1/18/2016 12:00	1/18/2016 12:00	32.5	30.5	65	16	32.8	2692.8	308.06	10960.2
	1/18/2016 13:56	1/18/2016 13:56	32	29.5	67	18	36.7	4029.8	461.01	11421.2
	1/18/2016 15:32	1/18/2016 15:32	32	29	67	18	36.7	3518.9	402.56	11823.8
	1/18/2016 17:01	1/18/2016 17:01	31.5	28.5	63	18.5	37.6	3305.1	378.10	12201.9
	1/18/2016 17:02	1/18/2016 17:02		22.5				37.6	4.30	12206.2

<u>SW-172 Event 10</u>	1/20/2016 7:53	1/20/2016 7:53	28	29.5	38	0	0.0			12206.2
	1/20/2016 8:23	1/20/2016 8:23	26	26	50	7.5	14.5	217.3	24.86	12231.0
	1/20/2016 8:24	1/20/2016 8:24	32	31.5	50	15	31.1	22.8	2.61	12233.6
	1/20/2016 9:44	1/20/2016 9:44	32.5	30.5	60	15	30.9	2479.8	283.69	12517.3
	1/20/2016 11:09	1/20/2016 11:09	32.5	30	64	16	32.9	2710.7	310.11	12827.4
	1/20/2016 12:34	1/20/2016 12:34	32	29	65	17	34.7	2870.6	328.40	13155.8
	1/20/2016 14:20	1/20/2016 14:20	31.5	28.5	66	18	36.5	3772.5	431.57	13587.4
	1/20/2016 16:00	1/20/2016 16:00	31.5	28.5	64	18	36.6	3652.7	417.87	14005.3
	1/20/2016 17:02	1/20/2016 17:02	31	28	61	19	38.5	2326.9	266.19	14271.5
	1/20/2016 17:03	1/20/2016 17:03		23.5				38.5	4.40	14275.9
<u>SW-172 Event 11</u>	1/27/2016 7:18	1/27/2016 7:18	26.5	27	59	0	0.0			14275.9
	1/27/2016 7:39	1/27/2016 7:39	25	25	59	6	11.3	119.1	13.62	14289.5
	1/27/2016 7:40	1/27/2016 7:40	32	31	59	16	32.8	22.1	2.53	14292.0
	1/27/2016 9:11	1/27/2016 9:11	32.5	30	61	16	33.0	2993.7	342.48	14634.5
	1/27/2016 10:46	1/27/2016 10:46	32	29.5	70	17	34.5	3204.9	366.64	15001.2
	1/27/2016 12:07	1/27/2016 12:07	32	29	70	17.5	35.5	2837.0	324.55	15325.7
	1/27/2016 13:56	1/27/2016 13:56	31.5	28	66	18.5	37.5	3980.5	455.37	15781.1
	1/27/2016 15:55	1/27/2016 15:55	31.5	28	68	18.5	37.4	4458.7	510.08	16291.2
	1/27/2016 17:00	1/27/2016 17:00	31	27	64	19	38.4	2463.9	281.87	16573.0
	1/27/2016 17:01	1/27/2016 17:01		23				38.4	4.39	16577.4
Total CO ₂ Mass (lbs):										16577.4

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-173 Event 1	10/20/2015 11:27	10/20/2015	11:27	11	11.5	77	0	0.0				0	
	10/20/2015 14:07	10/20/2015	14:07	12	12.5	80	0	0.0	0.0	0.00	0.0		
	10/20/2015 14:08	10/20/2015	14:08	20	24	80	0	0.0	0.0	0.00	0.0		
	10/20/2015 15:12	10/20/2015	15:12	22	23	82	0	0.0	0.0	0.00	0.0		
	10/20/2015 15:13	10/20/2015	15:13	28	27	82	0	0.0	0.0	0.00	0.0		
	10/20/2015 16:27	10/20/2015	16:27	28	27	81	0	0.0	0.0	0.00	0.0		
	10/20/2015 16:28	10/20/2015	16:28	33	33	81	7	14.2	7.1	0.81	0.8		
	10/20/2015 17:12	10/20/2015	17:12	34	33	78	6	12.3	584.4	66.85	67.7		
	10/20/2015 17:13	10/20/2015	17:13		26				12.3	1.41	69.1		
SW-173 Event 2	12/1/2015 7:57	12/1/2015	7:57	26	27	66	0	0.0				69.1	
	12/1/2015 8:19	12/1/2015	8:19	26	25.5	67	0	0.0	0.0	0.00	69.1		
	12/1/2015 9:28	12/1/2015	9:28	25.5	25	70	0	0.0	0.0	0.00	69.1		
	12/1/2015 11:02	12/1/2015	11:02	25	25	80	0	0.0	0.0	0.00	69.1		
	12/1/2015 11:03	12/1/2015	11:03	28	28	80	3	5.8	2.9	0.33	69.4		
	12/1/2015 12:18	12/1/2015	12:18	28	28	82	3	5.8	432.0	49.42	118.8		
	12/1/2015 14:04	12/1/2015	14:04	28	28	81	4	7.7	712.0	81.45	200.3		
	12/1/2015 15:35	12/1/2015	15:35	28	28	79	4	7.7	699.5	80.02	280.3		
	12/1/2015 17:05	12/1/2015	17:05	28	28	73	4	7.7	694.5	79.45	359.7		
	12/2/2015 8:18	12/2/2015	8:18	28	28	78	7.5	14.4	10124.5	1158.24	1518.0		
	12/2/2015 8:19	12/2/2015	8:19		22				14.4	1.65	1519.6		
	SW-173 Event 3	12/10/2015 7:54	12/10/2015	7:54	29	29	52	0	0.0				1519.6
		12/10/2015 8:24	12/10/2015	8:24	28	27	59	<2	0.0	0.0	0.00	1519.6	
12/10/2015 8:25		12/10/2015	8:25	33	32.5	59	8	16.6	8.3	0.95	1520.6		
12/10/2015 9:28		12/10/2015	9:28	33	31.5	68	8.5	17.5	1073.5	122.80	1643.4		
12/10/2015 10:33		12/10/2015	10:33	32.5	31	73	9.5	19.3	1196.5	136.88	1780.3		
12/10/2015 11:36		12/10/2015	11:36	32.5	30.5	75	10	20.3	1249.0	142.89	1923.2		
12/10/2015 12:24		12/10/2015	12:24	32.5	30.5	75	10	20.3	975.1	111.55	2034.7		
12/10/2015 13:21		12/10/2015	13:21	32	30	76	10	20.2	1154.3	132.05	2166.8		
12/10/2015 14:36		12/10/2015	14:36	31.5	30	76	10	20.1	1509.8	172.73	2339.5		
12/10/2015 15:37		12/10/2015	15:37	31.5	29.5	75	10.5	21.1	1255.9	143.67	2483.2		
12/10/2015 16:53		12/10/2015	16:53	31	29	70	10.5	21.1	1603.1	183.39	2666.6		
12/10/2015 16:54		12/10/2015	16:54		24				21.1	2.41	2669.0		
SW-173 Event 4		12/14/2015 8:03	12/14/2015	8:03	28.5	28	72	0	0.0				2669.0
	12/14/2015 8:27	12/14/2015	8:27	27	26	73	3	5.7	68.8	7.87	2676.8		
	12/14/2015 8:30	12/14/2015	8:30	33	31.5	73	7	14.3	30.1	3.44	2680.3		
	12/14/2015 10:15	12/14/2015	10:15	31.5	30	74	10	20.1	1808.1	206.84	2887.1		
	12/14/2015 12:07	12/14/2015	12:07	31.5	30	76	10	20.1	2250.7	257.48	3144.6		
	12/14/2015 13:42	12/14/2015	13:42	31.5	30	76	10.5	21.1	1954.9	223.64	3368.2		
	12/14/2015 15:06	12/14/2015	15:06	31.5	30	76	11	22.1	1812.9	207.39	3575.6		
	12/14/2015 16:02	12/14/2015	16:02	31.5	29.5	76	11.5	23.1	1264.8	144.69	3720.3		
	12/14/2015 17:15	12/14/2015	17:15	32	30	74	12	24.3	1728.6	197.75	3918.1		
	12/15/2015 7:55	12/15/2015	7:55	30.5	27.5	68	16	32.0	24765.7	2833.20	6751.3		
	12/15/2015 7:59	12/15/2015	7:59		24				128.1	14.65	6765.9		

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-173 Event 5	1/8/2016 7:51	1/8/2016	7:51	28	28	58	0	0.0			6765.9
	1/8/2016 8:22	1/8/2016	8:22	27	26.5	59	3	5.8	90.1	10.31	6776.2
	1/8/2016 8:25	1/8/2016	8:25	34	32	59	10	21.0	40.2	4.60	6780.8
	1/8/2016 9:52	1/8/2016	9:52	33.5	31.5	62	11.5	23.9	1952.5	223.36	7004.2
	1/8/2016 11:25	1/8/2016	11:25	33	31	65	12	24.7	2263.0	258.88	7263.1
	1/8/2016 13:28	1/8/2016	13:28	32	30	67	12	24.4	3025.0	346.06	7609.1
	1/8/2016 14:44	1/8/2016	14:44	32	30	67	12	24.4	1857.2	212.46	7821.6
	1/8/2016 15:57	1/8/2016	15:57	32	29.5	66	12.5	25.5	1822.0	208.43	8030.0
	1/8/2016 17:11	1/8/2016	17:11	31.5	29	64	13	26.4	1919.8	219.63	8249.7
1/8/2016 17:12	1/8/2016	17:12		25.5				26.4	3.02	8252.7	
SW-173 Event 6	1/11/2016 7:47	1/11/2016	7:47	28	28	39	0	0.0			8252.7
	1/11/2016 8:18	1/11/2016	8:18	28	26	47	5	9.9	153.9	17.60	8270.3
	1/11/2016 8:19	1/11/2016	8:19	33	30.5	47	12	25.2	17.6	2.01	8272.3
	1/11/2016 10:03	1/11/2016	10:03	31.5	29.5	58	12	24.5	2585.7	295.80	8568.1
	1/11/2016 10:04	1/11/2016	10:04		24				24.5	2.81	8570.9
Total CO ₂ Mass (lbs):											8570.9

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-174 Event 1	11/13/2015 7:20	11/13/2015	7:20	14	14	62	0	0.0				0
	11/13/2015 7:23	11/13/2015	7:23	16	18	62	0	0.0	0.0	0.00	0.0	0.0
	11/13/2015 7:25	11/13/2015	7:25	18	19.5	62	0	0.0	0.0	0.00	0.0	0.0
	11/13/2015 7:27	11/13/2015	7:27	20	21	62	0	0.0	0.0	0.00	0.0	0.0
	11/13/2015 7:29	11/13/2015	7:29	22	23	62	0	0.0	0.0	0.00	0.00	0.0
	11/13/2015 7:31	11/13/2015	7:31	24	25	62	0	0.0	0.0	0.00	0.00	0.0
	11/13/2015 7:36	11/13/2015	7:36	26	26.5	62	0	0.0	0.0	0.00	0.00	0.0
	11/13/2015 7:38	11/13/2015	7:38	28	28.5	62	0	0.0	0.0	0.00	0.00	0.0
	11/13/2015 7:40	11/13/2015	7:40	30	30	62	0	0.0	0.0	0.00	0.00	0.0
	11/13/2015 7:42	11/13/2015	7:42	32	32	62	<2	0.0	0.0	0.00	0.00	0.0
	11/13/2015 8:42	11/13/2015	8:42	32	31.5	67	4.5	9.2	274.9	31.45	31.5	31.5
	11/13/2015 9:54	11/13/2015	9:54	32	31	72	5.5	11.1	731.1	83.64	115.1	115.1
	11/13/2015 10:36	11/13/2015	10:36	32	30.5	76	6	12.1	488.4	55.87	171.0	171.0
	11/13/2015 11:05	11/13/2015	11:05	32	30.5	77	6	12.1	351.1	40.16	211.1	211.1
11/13/2015 11:06	11/13/2015	11:06		27				12.1	1.38	212.5	212.5	
SW-174 Event 2	11/21/2015 12:50	11/21/2015	12:50	27	24	79	0	0.0				212.5
	11/21/2015 13:20	11/21/2015	13:20	26.5	23.5	80	0	0.0	0.0	0.00	0.0	212.5
	11/21/2015 13:24	11/21/2015	13:24	30	28	80	<2	0.0	0.0	0.00	0.0	212.5
	11/21/2015 14:34	11/21/2015	14:34	30.5	27.5	74	3	6.0	208.9	23.90	236.4	236.4
	11/21/2015 14:35	11/21/2015	14:35	35.5	32	74	7.5	15.7	10.9	1.24	237.6	237.6
	11/21/2015 15:42	11/21/2015	15:42	35.5	32	72	7.5	15.8	1055.3	120.73	358.4	358.4
	11/21/2015 17:18	11/21/2015	17:18	35	31.5	70	8	16.8	1561.5	178.64	537.0	537.0
	11/21/2015 17:23	11/21/2015	17:23		25.5				83.8	9.59	546.6	546.6
SW-174 Event 3	12/4/2015 7:55	12/4/2015	7:55	28	28	56	0	0.0				546.6
	12/4/2015 8:25	12/4/2015	8:25	28	26.5	56	0	0.0	0.0	0.00	546.6	546.6
	12/4/2015 8:27	12/4/2015	8:27	32	32	56	6	12.4	12.4	1.41	548.0	548.0
	12/4/2015 9:33	12/4/2015	9:33	32.5	32	63	5.5	11.3	780.7	89.32	637.3	637.3
	12/4/2015 10:50	12/4/2015	10:50	32.5	31.5	67	6	12.3	908.2	103.90	741.2	741.2
	12/4/2015 12:23	12/4/2015	12:23	32	31	68	7	14.2	1233.4	141.10	882.3	882.3
	12/4/2015 12:24	12/4/2015	12:24		27				14.2	1.63	884.0	884.0
SW-174 Event 4	12/7/2015 8:10	12/7/2015	8:10	27	28	60	0	0.0				884.0
	12/7/2015 8:40	12/7/2015	8:40	26.5	26	61	0	0.0	0.0	0.00	884.0	884.0
	12/7/2015 8:42	12/7/2015	8:42	31	31	61	5	10.1	10.1	1.16	885.1	885.1
	12/7/2015 9:58	12/7/2015	9:58	31	31	65	5.5	11.1	806.8	92.29	977.4	977.4
	12/7/2015 11:15	12/7/2015	11:15	31	30.5	69	5	10.1	814.3	93.16	1070.6	1070.6
	12/7/2015 11:17	12/7/2015	11:17	32.5	32	69	8	16.3	26.4	3.02	1073.6	1073.6
	12/7/2015 12:51	12/7/2015	12:51	33	32.5	72	7.5	15.4	1490.4	170.50	1244.1	1244.1
	12/7/2015 14:40	12/7/2015	14:40	33	32.5	74	7.5	15.3	1672.9	191.38	1435.5	1435.5
	12/7/2015 16:15	12/7/2015	16:15	33	32	74	7.5	15.3	1456.6	166.64	1602.1	1602.1
	12/7/2015 17:18	12/7/2015	17:18	33	32	69	9	18.5	1065.4	121.88	1724.0	1724.0
	12/8/2015 8:15	12/8/2015	8:15	32	30	64	13	26.6	20200.9	2310.99	4035.0	4035.0
	12/8/2015 8:16	12/8/2015	8:16		26				26.6	3.04	4038.0	4038.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-174 Event 5	12/17/2015 7:37	12/17/2015	7:37	27.5	27.5	72	0	0.0				4038.0
	12/17/2015 8:09	12/17/2015	8:09	27	26	73	0	0.0	0.0	0.00		4038.0
	12/17/2015 8:14	12/17/2015	8:14	32	31.5	73	7	14.2	35.4	4.05		4042.1
	12/17/2015 9:32	12/17/2015	9:32	32.5	31	76	8	16.2	1185.9	135.67		4177.7
	12/17/2015 10:39	12/17/2015	10:39	32.5	30.5	78	8	16.2	1086.8	124.33		4302.1
	12/17/2015 11:42	12/17/2015	11:42	32.5	30.5	78	8.5	17.2	1052.8	120.44		4422.5
	12/17/2015 12:54	12/17/2015	12:54	32.5	30.5	79	9	18.2	1275.5	145.92		4568.4
	12/17/2015 13:39	12/17/2015	13:39	32	30	79	9	18.1	817.4	93.51		4661.9
	12/17/2015 14:35	12/17/2015	14:35	32.5	30	76	10	20.3	1075.5	123.04		4785.0
	12/17/2015 15:56	12/17/2015	15:56	32.5	30	74	10	20.3	1645.5	188.25		4973.2
	12/17/2015 15:58	12/17/2015	15:58		27				40.7	4.65		4977.9
SW-174 Event 6	12/19/2015 10:57	12/19/2015	10:57	28	28	63	0	0.0				4977.9
	12/19/2015 11:30	12/19/2015	11:30	27	25.5	65	4.5	8.7	143.0	16.36		4994.2
	12/19/2015 11:32	12/19/2015	11:32	34	31.5	65	13	27.1	35.8	4.09		4998.3
	12/19/2015 12:57	12/19/2015	12:57	34	31.5	67	13	27.0	2300.9	263.23		5261.6
	12/19/2015 13:43	12/19/2015	13:43	34	31	67	13	27.0	1244.0	142.31		5403.9
	12/19/2015 14:41	12/19/2015	14:41	34	30.5	68	13	27.0	1567.7	179.35		5583.2
	12/19/2015 15:49	12/19/2015	15:49	34	30.5	68	13	27.0	1837.1	210.17		5793.4
	12/19/2015 17:18	12/19/2015	17:18	33.5	30.5	64	14	29.1	2495.3	285.46		6078.8
	12/19/2015 17:19	12/19/2015	17:19		25				29.1	3.32		6082.2
	SW-174 Event 7	12/22/2015 7:40	12/22/2015	7:40	28.5	28.5	70	0	0.0			
12/22/2015 8:08		12/22/2015	8:08	28	27	70	4	7.8	108.7	12.43		6094.6
12/22/2015 8:09		12/22/2015	8:09	32	31.5	70	12	24.4	16.1	1.84		6096.4
12/22/2015 10:22		12/22/2015	10:22	32	31	72	11.5	23.3	3170.0	362.65		6459.1
12/22/2015 11:03		12/22/2015	11:03	32	31	72	11.5	23.3	955.5	109.31		6568.4
12/22/2015 11:04		12/22/2015	11:04		26				23.3	2.67		6571.1
SW-174 Event 8	1/5/2016 7:34	1/5/2016	7:34	27	28	43	0	0.0				6571.1
	1/5/2016 8:01	1/5/2016	8:01	27	26	46	<2	0.0	0.0	0.00		6571.1
	1/5/2016 8:02	1/5/2016	8:02	32	31	46	8	16.6	8.3	0.95		6572.0
	1/5/2016 9:35	1/5/2016	9:35	32	32	53	7	14.5	1445.9	165.41		6737.4
	1/5/2016 11:23	1/5/2016	11:23	32	31	60	8	16.4	1666.4	190.64		6928.1
	1/5/2016 12:55	1/5/2016	12:55	32	31	62	8.5	17.4	1554.8	177.87		7105.9
	1/5/2016 14:14	1/5/2016	14:14	32	31	58	9.5	19.5	1458.1	166.81		7272.7
	1/5/2016 15:40	1/5/2016	15:40	32	31	57	9.5	19.5	1679.5	192.14		7464.9
	1/5/2016 16:57	1/5/2016	16:57	32	31	56	10	20.6	1544.9	176.74		7641.6
	1/6/2016 7:52	1/6/2016	7:52	31	28	50	13.5	27.7	21589.9	2469.88		10111.5
	1/6/2016 7:53	1/6/2016	7:53		26				27.7	3.16		10114.7
SW-174 Event 9	1/15/2016 7:16	1/15/2016	7:16	27	27	65	0	0.0				10114.7
	1/15/2016 7:46	1/15/2016	7:46	26	25.5	65	<2	0.0	0.0	0.00		10114.7
	1/15/2016 7:49	1/15/2016	7:49	33	31.5	65	11	22.7	34.0	3.89		10118.5
	1/15/2016 8:51	1/15/2016	8:51	34	31.5	65	11	22.9	1414.1	161.77		10280.3
	1/15/2016 10:34	1/15/2016	10:34	33	31	64	11	22.7	2350.3	268.88		10549.2
	1/15/2016 11:22	1/15/2016	11:22	33	31	64	11	22.7	1090.1	124.70		10673.9
	1/15/2016 11:23	1/15/2016	11:23		25.5				22.7	2.60		10676.5
	SW-174 Event 10	1/18/2016 8:18	1/18/2016	8:18	26	25	45	0	0.0			
1/18/2016 8:56		1/18/2016	8:56	25	24.5	50	<2	0.0	0.0	0.00		10676.5
1/18/2016 8:57		1/18/2016	8:57	33	30.5	50	12	25.1	12.6	1.44		10677.9
1/18/2016 10:34		1/18/2016	10:34	33	30.5	58	12	24.9	2427.4	277.69		10955.6
1/18/2016 11:55		1/18/2016	11:55	33	31	61	12	24.8	2015.7	230.60		11186.2
1/18/2016 13:52		1/18/2016	13:52	33	31	64	12	24.8	2902.9	332.10		11518.3

LCP Chemicals Site, Brunswick, GA
SW-174

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/18/2016 15:33	1/18/2016	15:33	32.5	30.5	64	13	26.7	2599.2	297.35	11815.7
	1/18/2016 17:06	1/18/2016	17:06	33	30	61	13	26.9	2493.1	285.21	12100.9
	1/18/2016 17:07	1/18/2016	17:07		26				26.9	3.08	12104.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-174 Event 11	1/21/2016 7:44	1/21/2016	7:44	25	25	50	0	0.0			12104.0
	1/21/2016 7:55	1/21/2016	7:55	24	23.5	51	0	0.0	0.0	0.00	12104.0
	1/21/2016 7:56	1/21/2016	7:56	34	32.5	51	14	29.6	14.8	1.69	12105.7
	1/21/2016 9:10	1/21/2016	9:10	35	32.5	62	14	29.6	2189.2	250.44	12356.1
	1/21/2016 12:54	1/21/2016	12:54	34.5	31	62	16	33.6	7077.9	809.71	13165.8
	1/21/2016 15:13	1/21/2016	15:13	34.5	31	62	16.5	34.7	4746.7	543.02	13708.8
	1/21/2016 16:57	1/21/2016	16:57	34.5	31	61	16.5	34.7	3607.9	412.74	14121.6
	1/21/2016 16:58	1/21/2016	16:58		25				34.7	3.97	14125.5
SW-174 Event 12	1/26/2016 8:13	1/26/2016	8:13	30	29	54	0	0.0			14125.5
	1/26/2016 9:38	1/26/2016	9:38	28	27	60	4.5	8.8	374.7	42.87	14168.4
	1/26/2016 9:39	1/26/2016	9:39	33	32	60	14.5	30.1	19.4	2.22	14170.6
	1/26/2016 12:01	1/26/2016	12:01	34	32	67	12.5	26.0	3980.1	455.33	14626.0
	1/26/2016 14:04	1/26/2016	14:04	33.5	31	68	12.5	25.8	3188.4	364.76	14990.7
	1/26/2016 15:43	1/26/2016	15:43	34	31.5	67	13.5	28.1	2669.3	305.36	15296.1
	1/26/2016 16:54	1/26/2016	16:54	34	31.5	64	13.5	28.2	1996.9	228.44	15524.5
	1/26/2016 16:55	1/26/2016	16:55		27				28.2	3.22	15527.7
SW-174 Event 13	2/16/2016 7:25	2/16/2016	7:25	30	29	60	<2	0.0			15527.7
	2/16/2016 7:55	2/16/2016	7:55	30	27.5	61	4	8.0	120.2	13.75	15541.5
	2/16/2016 7:56	2/16/2016	7:56	37	34.5	61	13	28.0	18.0	2.06	15543.6
	2/16/2016 9:16	2/16/2016	9:16	37.5	34.5	64	14	30.3	2332.1	266.80	15810.4
	2/16/2016 11:04	2/16/2016	11:04	37	33.5	67	15.5	33.2	3428.9	392.26	16202.6
	2/16/2016 12:26	2/16/2016	12:26	37	33	68	16	34.3	2768.1	316.67	16519.3
	2/16/2016 12:27	2/16/2016	12:27		28				34.3	3.92	16523.2
	Total CO ₂ Mass (lbs):										

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-175 Event 1	11/12/2015 8:34	11/12/2015	8:34	23	22	70	0	0.0			0
	11/12/2015 8:40	11/12/2015	8:40	25	25	70	0	0.0	0.0	0.00	0.0
	11/12/2015 8:42	11/12/2015	8:42	27	27	70	0	0.0	0.0	0.00	0.0
	11/12/2015 8:49	11/12/2015	8:49	30	29	70	0	0.0	0.0	0.00	0.0
	11/12/2015 8:54	11/12/2015	8:54	32	31	72	4	8.1	20.3	2.32	2.3
	11/12/2015 9:32	11/12/2015	9:32	32	30	76	6	12.1	384.1	43.94	46.3
	11/12/2015 10:30	11/12/2015	10:30	32	30	79	7	14.1	759.8	86.93	133.2
	11/12/2015 11:30	11/12/2015	11:30	32	30	83	8	16.0	903.9	103.41	236.6
	11/12/2015 12:10	11/12/2015	12:10	32	30	84	8	16.0	641.3	73.37	310.0
	11/12/2015 13:57	11/12/2015	13:57	32	30	87	8	16.0	1712.3	195.89	505.9
	11/12/2015 14:47	11/12/2015	14:47	32	29.5	89	8	16.0	798.3	91.32	597.2
	11/12/2015 16:02	11/12/2015	16:02	32	29.5	91	8	15.9	1195.1	136.72	733.9
	11/12/2015 17:00	11/12/2015	17:00	32	29.5	86	8	16.0	925.5	105.88	839.8
11/12/2015 17:02	11/12/2015	17:02		26				32.0	3.66	843.4	
SW-175 Event 2	11/20/2015 8:01	11/20/2015	8:01	27	25	64	0	0.0			843.4
	11/20/2015 8:27	11/20/2015	8:27	27	24	66	0	0.0	0.0	0.00	843.4
	11/20/2015 8:28	11/20/2015	8:28	31	28	66	3	6.0	3.0	0.35	843.8
	11/20/2015 9:43	11/20/2015	9:43	31	28	73	3	6.0	452.1	51.72	895.5
	11/20/2015 9:44	11/20/2015	9:44	35	32	73	9	18.8	12.4	1.42	896.9
	11/20/2015 11:22	11/20/2015	11:22	36	33	79	7.5	15.7	1692.7	193.64	1090.6
	11/20/2015 13:09	11/20/2015	13:09	35.5	32	79	9	18.8	1847.4	211.34	1301.9
	11/20/2015 15:08	11/20/2015	15:08	35.5	31.5	78	10	20.9	2361.6	270.17	1572.1
	11/20/2015 17:18	11/20/2015	17:18	34	30	70	10	20.7	2706.7	309.64	1881.7
	11/20/2015 17:21	11/20/2015	17:21		27				62.2	7.12	1888.8
SW-175 Event 3	12/3/2015 7:52	12/3/2015	7:52	26	25	58	0	0.0			1888.8
	12/3/2015 8:15	12/3/2015	8:15	25.5	24	60	0	0.0	0.0	0.00	1888.8
	12/3/2015 8:16	12/3/2015	8:16	30	28	60	6	12.0	6.0	0.69	1889.5
	12/3/2015 10:32	12/3/2015	10:32	30.5	28.5	65	5	10.0	1500.6	171.67	2061.2
	12/3/2015 11:50	12/3/2015	11:50	30.5	28.5	70	5.5	11.0	819.7	93.77	2155.0
	12/3/2015 13:59	12/3/2015	13:59	30	28	72	6	11.9	1475.5	168.79	2323.8
	12/3/2015 15:32	12/3/2015	15:32	30	28	71	6	11.9	1106.5	126.58	2450.3
	12/3/2015 17:10	12/3/2015	17:10	28	26.5	66	4	7.8	965.0	110.40	2560.7
	12/3/2015 17:11	12/3/2015	17:11		24				7.8	0.89	2561.6
SW-175 Event 4	12/9/2015 7:37	12/9/2015	7:37	28	27	55	0	0.0			2561.6
	12/9/2015 8:16	12/9/2015	8:16	27.5	26	58	<2	0.0	0.0	0.00	2561.6
	12/9/2015 8:18	12/9/2015	8:18	33	31	58	10	20.8	20.8	2.38	2564.0
	12/9/2015 9:15	12/9/2015	9:15	34	31	66	10	20.8	1185.4	135.61	2699.6
	12/9/2015 10:22	12/9/2015	10:22	33.5	31	72	10	20.6	1387.4	158.72	2858.3
	12/9/2015 11:42	12/9/2015	11:42	33	30.5	76	10	20.4	1639.9	187.60	3045.9
	12/9/2015 12:50	12/9/2015	12:50	33	30.5	77	11.5	23.4	1490.8	170.55	3216.5
	12/9/2015 14:11	12/9/2015	14:11	33	30.5	73	12	24.6	1943.9	222.39	3438.9
	12/9/2015 15:13	12/9/2015	15:13	33	30.5	76	12	24.5	1520.3	173.92	3612.8
	12/9/2015 16:50	12/9/2015	16:50	33	30.5	72	12	24.6	2379.7	272.23	3885.0
	12/9/2015 16:51	12/9/2015	16:51		26				24.6	2.81	3887.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-175 Event 5	12/21/2015 7:34	12/21/2015	7:34	28	27	60	0	0.0				3887.8
	12/21/2015 8:01	12/21/2015	8:01	27.5	24	62	3	5.8	78.7	9.01	3896.8	
	12/21/2015 8:02	12/21/2015	8:02	33	29	62	10	20.7	13.3	1.52	3898.4	
	12/21/2015 9:23	12/21/2015	9:23	33.5	29.5	68	10.5	21.7	1716.9	196.42	4094.8	
	12/21/2015 11:39	12/21/2015	11:39	33	29.5	74	11	22.5	3005.3	343.80	4438.6	
	12/21/2015 13:05	12/21/2015	13:05	33	29	78	11.5	23.4	1974.0	225.83	4664.4	
	12/21/2015 14:17	12/21/2015	14:17	32	28	72	12	24.3	1718.5	196.60	4861.0	
	12/21/2015 15:14	12/21/2015	15:14	32	28	72	12	24.3	1386.1	158.57	5019.6	
	12/21/2015 16:07	12/21/2015	16:07	32	27.5	71	12	24.3	1289.5	147.51	5167.1	
	12/21/2015 17:01	12/21/2015	17:01	33	28	70	13	26.7	1377.6	157.60	5324.7	
	12/21/2015 17:05	12/21/2015	17:05		24				106.7	12.21	5336.9	
SW-175 Event 6	1/14/2016 7:45	1/14/2016	7:45	29	27	40	0	0.0				5336.9
	1/14/2016 8:12	1/14/2016	8:12	28	25	46	<2	0.0	0.0	0.00	5336.9	
	1/14/2016 8:13	1/14/2016	8:13	34	31	46	8	17.0	8.5	0.97	5337.9	
	1/14/2016 9:23	1/14/2016	9:23	34	30.5	57	9.5	20.0	1293.5	147.98	5485.8	
	1/14/2016 11:27	1/14/2016	11:27	33.5	30	64	11.5	23.9	2717.4	310.87	5796.7	
	1/14/2016 13:13	1/14/2016	13:13	33	29.5	64	12	24.8	2578.1	294.93	6091.6	
	1/14/2016 14:34	1/14/2016	14:34	33	29	62	13	26.9	2092.5	239.38	6331.0	
	1/14/2016 16:11	1/14/2016	16:11	33	28.5	60	14	29.0	2711.7	310.22	6641.2	
	1/14/2016 17:05	1/14/2016	17:05	33	28.5	60	14	29.0	1567.0	179.27	6820.5	
	1/14/2016 17:06	1/14/2016	17:06		24				29.0	3.32	6823.8	
	SW-175 Event 7	1/19/2016 7:36	1/19/2016	7:36	28.5	25	34	0	0.0			
1/19/2016 8:03		1/19/2016	8:03	27	24.5	40	3	5.9	80.0	9.15	6833.0	
1/19/2016 8:04		1/19/2016	8:04	34	29.5	40	11	23.5	14.7	1.68	6834.7	
1/19/2016 9:47		1/19/2016	9:47	33	29.5	52	12	25.1	2502.5	286.29	7121.0	
1/19/2016 11:37		1/19/2016	11:37	33.5	29	57	13	27.2	2873.5	328.73	7449.7	
1/19/2016 14:04		1/19/2016	14:04	32.5	28	60	13.5	27.8	4042.8	462.49	7912.2	
1/19/2016 16:08		1/19/2016	16:08	32.5	28	61	13.5	27.8	3449.6	394.63	8306.8	
1/19/2016 17:05		1/19/2016	17:05	32	28.5	60	14	28.7	1610.6	184.26	8491.1	
1/19/2016 17:06		1/19/2016	17:06		25				28.7	3.28	8494.4	
SW-175 Event 8		1/28/2016 7:21	1/28/2016	7:21	31	27	59	<2	0.0			
	1/28/2016 7:38	1/28/2016	7:38	30	26.5	60	4.5	9.0	76.7	8.78	8503.1	
	1/28/2016 7:39	1/28/2016	7:39	37	32.5	60	11	23.8	16.4	1.87	8505.0	
	1/28/2016 9:42	1/28/2016	9:42	37	32	61	14	30.2	3318.3	379.61	8884.6	
	1/28/2016 11:42	1/28/2016	11:42	36.5	31	62	16	34.3	3870.8	442.82	9327.4	
	1/28/2016 14:07	1/28/2016	14:07	36	30.5	64	18	38.3	5266.6	602.50	9929.9	
	1/28/2016 15:16	1/28/2016	15:16	36	30.5	62	18	38.4	2647.5	302.88	10232.8	
	1/28/2016 17:09	1/28/2016	17:09	35.5	29.5	60	18.5	39.4	4393.6	502.63	10735.4	
	1/28/2016 17:10	1/28/2016	17:10		25				39.4	4.50	10739.9	
	SW-175 Event 9	2/1/2016 7:57	2/1/2016	7:57	26	28	50	0	0.0			
2/1/2016 8:11		2/1/2016	8:11	28	25.5	54	4.5	8.9	62.1	7.10	10747.1	
2/1/2016 8:12		2/1/2016	8:12	35	33	54	11	23.4	16.1	1.85	10748.9	
2/1/2016 9:40		2/1/2016	9:40	35	32	65	13.5	28.4	2281.6	261.01	11009.9	
2/1/2016 11:18		2/1/2016	11:18	34.5	31	71	14	29.2	2822.0	322.83	11332.7	
2/1/2016 12:38		2/1/2016	12:38	34	30.5	72	14.5	30.0	2367.0	270.79	11603.5	
2/1/2016 14:11		2/1/2016	14:11	34	30	75	15.5	32.0	2883.4	329.86	11933.4	
2/1/2016 15:44		2/1/2016	15:44	33.5	29.5	72	16	32.9	3019.7	345.46	12278.8	
2/1/2016 17:07		2/1/2016	17:07	33.5	29	70	16	33.0	2737.3	313.15	12592.0	
2/1/2016 17:08		2/1/2016	17:08		26				33.0	3.78	12595.8	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-175 Event 10	2/11/2016 7:33	2/11/2016	7:33	31	30	37	0	0.0			12595.8
	2/11/2016 7:52	2/11/2016	7:52	30	27	42	5.5	11.2	106.7	12.21	12608.0
	2/11/2016 7:54	2/11/2016	7:54	37	34.5	42	13	28.6	39.8	4.56	12612.5
	2/11/2016 9:07	2/11/2016	9:07	38	34.5	55	16	35.1	2323.6	265.82	12878.4
	2/11/2016 12:46	2/11/2016	12:46	38	34.5	62	18	39.2	8129.1	929.97	13808.3
	2/11/2016 13:43	2/11/2016	13:43	37	33.5	64	18	38.7	2219.8	253.94	14062.3
	2/11/2016 15:04	2/11/2016	15:04	37.5	33	65	19	41.0	3229.5	369.45	14431.7
	2/11/2016 16:07	2/11/2016	16:07	37	33	66	20	42.9	2644.6	302.54	14734.3
	2/11/2016 17:19	2/11/2016	17:19	37	32.5	65	20	43.0	3092.5	353.79	15088.1
	2/11/2016 17:20	2/11/2016	17:20		29				43.0	4.92	15093.0
SW-175 Event 11	2/15/2016 7:44	2/15/2016	7:44	32.5	31	49	4	8.3			15093.0
	2/15/2016 8:32	2/15/2016	8:32	31.5	28.5	54	8	16.4	594.1	67.96	15160.9
	2/15/2016 8:33	2/15/2016	8:33	37	34.5	54	18	39.1	27.8	3.18	15164.1
	2/15/2016 10:13	2/15/2016	10:13	38.5	35	59	18	39.5	3929.3	449.51	15613.6
	2/15/2016 11:24	2/15/2016	11:24	38.5	35	60	18	39.4	2801.6	320.51	15934.1
	2/15/2016 12:30	2/15/2016	12:30	39	34	64	19	41.7	2676.4	306.18	16240.3
	2/15/2016 14:23	2/15/2016	14:23	38.5	33.5	66	19.5	42.5	4753.5	543.80	16784.1
	2/15/2016 15:48	2/15/2016	15:48	38.5	33.5	66	20	43.6	3656.3	418.28	17202.4
	2/15/2016 17:03	2/15/2016	17:03	38	33	65	20	43.4	3260.8	373.03	17575.4
	2/15/2016 17:04	2/15/2016	17:04		28				43.4	4.96	17580.4
SW-175 Event 12	2/29/2016 11:11	2/29/2016	11:11	34.5	33	70	<2	0.0			17580.4
	2/29/2016 11:18	2/29/2016	11:18	33.5	31	71	7	14.4	50.5	5.78	17586.2
	2/29/2016 11:19	2/29/2016	11:19	37	34	71	12	25.6	20.0	2.29	17588.5
	2/29/2016 13:33	2/29/2016	13:33	37	33.5	75	13	27.7	3570.5	408.47	17996.9
	2/29/2016 14:41	2/29/2016	14:41	36.5	33	75	14	29.6	1948.2	222.87	18219.8
	2/29/2016 15:53	2/29/2016	15:53	36.5	32.5	75	14.5	30.7	2172.2	248.50	18468.3
	2/29/2016 16:54	2/29/2016	16:54	36	32	74	15	31.6	1901.0	217.48	18685.8
	2/29/2016 16:55	2/29/2016	16:55		27				31.6	3.62	18689.4
SW-175 Event 13	3/2/2016 7:28	3/2/2016	7:28	33	31	66	<2	0.0			18689.4
	3/2/2016 7:33	3/2/2016	7:33	32	30	66	4	8.2	20.4	2.33	18691.7
	3/2/2016 7:34	3/2/2016	7:34	37	34	66	10	21.5	14.8	1.69	18693.4
	3/2/2016 8:31	3/2/2016	8:31	36	33	66	14	29.8	1459.8	167.00	18860.4
	3/2/2016 10:54	3/2/2016	10:54	35.5	32	70	16	33.7	4537.1	519.04	19379.5
	3/2/2016 13:07	3/2/2016	13:07	35.5	31.5	73	16.5	34.7	4545.5	520.01	19899.5
	3/2/2016 15:45	3/2/2016	15:45	35	31	75	18	37.5	5703.0	652.43	20551.9
	3/2/2016 15:50	3/2/2016	15:50		26				187.7	21.47	20573.4
Total CO ₂ Mass (lbs):											20573.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-176 Event 1	10/20/2015 11:15	10/20/2015	11:15	12.5	14	77	0	0.0				0
	10/20/2015 11:29	10/20/2015	11:29	12.5	14	77	0	0.0		0.0	0.00	0.0
	10/20/2015 11:30	10/20/2015	11:30	20	23	77	0	0.0		0.0	0.00	0.0
	10/20/2015 14:03	10/20/2015	14:03	20	22	80	0	0.0		0.0	0.00	0.0
	10/20/2015 14:04	10/20/2015	14:04	25	24	80	5	9.3		4.6	0.53	0.5
	10/20/2015 15:11	10/20/2015	15:11	25	26	82	6	11.1		681.8	78.00	78.5
	10/20/2015 16:26	10/20/2015	16:26	25	26	81	7.5	13.9		936.3	107.12	185.6
	10/20/2015 16:27	10/20/2015	16:27	26	27	81	10	18.7		16.3	1.87	187.5
	10/20/2015 17:08	10/20/2015	17:08	26	27	78	10	18.8		769.3	88.01	275.5
	10/20/2015 17:09	10/20/2015	17:09		22					18.8	2.15	277.7
SW-176 Event 2	11/17/2015 8:03	11/17/2015	8:03	26	25	70	0	0.0				277.7
	11/17/2015 8:57	11/17/2015	8:57	24.5	22.5	74	0	0.0		0.0	0.00	277.7
	11/17/2015 8:58	11/17/2015	8:58	27	26	74	4	7.6		3.8	0.44	278.1
	11/17/2015 11:13	11/17/2015	11:13	27.5	25	83	7	13.3		1415.6	161.95	440.1
	11/17/2015 12:56	11/17/2015	12:56	27.5	25	84	8	15.2		1470.7	168.25	608.3
	11/17/2015 14:16	11/17/2015	14:16	27	24.5	82	8	15.2		1215.4	139.04	747.3
	11/17/2015 15:40	11/17/2015	15:40	27	24.5	80	8	15.2		1274.7	145.83	893.2
	11/17/2015 16:10	11/17/2015	16:10	27	24.5	75	8.5	16.2		471.1	53.89	947.1
	11/17/2015 16:11	11/17/2015	16:11		21					16.2	1.86	948.9
	11/23/2015 8:09	11/23/2015	8:09	27	27.5	46	0	0.0				948.9
SW-176 Event 3	11/23/2015 8:33	11/23/2015	8:33	27.5	25	52	6	11.8		141.4	16.17	965.1
	11/23/2015 8:38	11/23/2015	8:38	31	28	52	10	20.4		80.6	9.22	974.3
	11/23/2015 9:46	11/23/2015	9:46	30.5	27	60	12.5	25.2		1552.3	177.58	1151.9
	11/23/2015 11:57	11/23/2015	11:57	29.5	25.5	68	14	27.7		3465.5	396.45	1548.3
	11/23/2015 14:24	11/23/2015	14:24	29	25	70	14	27.5		4055.8	463.99	2012.3
	11/23/2015 14:26	11/23/2015	14:26	33	28	70	19	39.0		66.5	7.61	2019.9
	11/23/2015 15:36	11/23/2015	15:36	33	27.5	70	19	39.0		2729.7	312.27	2332.2
	11/23/2015 17:24	11/23/2015	17:24	32.5	27	63	19	39.1		4214.7	482.16	2814.4
	11/23/2015 17:26	11/23/2015	17:26		20					78.1	8.94	2823.3
	12/1/2105 8:00	12/1/2105	8:00	25	24	67	0	0.0				2823.3
SW-176 Event 4	12/1/2105 8:31	12/1/2105	8:31	24.5	22.5	67	<2	0.0		0.0	0.00	2823.3
	12/1/2105 8:33	12/1/2105	8:33	30	28	67	7	13.9		13.9	1.59	2824.9
	12/1/2105 9:30	12/1/2105	9:30	29.5	27	70	9	17.8		903.8	103.39	2928.3
	12/1/2105 11:07	12/1/2105	11:07	29	26	80	10.5	20.4		1852.0	211.87	3140.2
	12/1/2105 12:19	12/1/2105	12:19	29	26	82	11.5	22.3		1538.4	175.99	3316.2
	12/1/2105 14:07	12/1/2105	14:07	29	26	81	12	23.3		2463.8	281.86	3598.0
	12/1/2105 15:37	12/1/2105	15:37	29	26	79	12	23.4		2099.9	240.22	3838.2
	12/1/2105 17:05	12/1/2105	17:05	28.5	26	73	12.5	24.3		2097.9	240.00	4078.3
	12/1/2105 17:07	12/1/2105	17:07		18					48.7	5.57	4083.8
	12/11/2015 7:40	12/11/2015	7:40	29	27.5	54	0	0.0				4083.8
SW-176 Event 5	12/11/2015 8:07	12/11/2015	8:07	28	26	60	6	11.8		158.7	18.16	4102.0
	12/11/2015 8:08	12/11/2015	8:08	33	30.5	60	11	22.8		17.3	1.98	4104.0
	12/11/2015 9:11	12/11/2015	9:11	31	28.5	68	13	26.2		1542.2	176.43	4280.4
	12/11/2015 10:13	12/11/2015	10:13	30	28	73	13.5	26.7		1639.5	187.56	4467.9
	12/11/2015 10:56	12/11/2015	10:56	32.5	28.5	74	16	32.5		1274.2	145.77	4613.7
	12/11/2015 10:57	12/11/2015	10:57		19					32.5	3.72	4617.4

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-176 Event 6	12/14/2015 7:59	12/14/2015	7:59	29	28	72	0	0.0			4617.4
	12/14/2015 8:34	12/14/2015	8:34	28	25.5	73	6	11.6	203.1	23.24	4640.7
	12/14/2015 8:36	12/14/2015	8:36	32	30	73	9	18.2	29.8	3.41	4644.1
	12/14/2015 10:18	12/14/2015	10:18	31.5	28.5	74	13	26.1	2262.9	258.87	4903.0
	12/14/2015 12:09	12/14/2015	12:09	30.5	27.5	76	14	27.8	2994.0	342.51	5245.5
	12/14/2015 13:45	12/14/2015	13:45	30.5	27	76	15	29.8	2763.8	316.17	5561.6
	12/14/2015 15:07	12/14/2015	15:07	30.5	27	76	16	31.8	2523.5	288.69	5850.3
	12/14/2015 16:04	12/14/2015	16:04	30.5	27	76	16	31.8	1810.7	207.15	6057.5
	12/14/2015 17:10	12/14/2015	17:10	30.5	27	74	16	31.8	2098.7	240.09	6297.6
	12/14/2015 17:12	12/14/2015	17:12		19				63.7	7.28	6304.9
SW-176 Event 7	12/19/2015 10:53	12/19/2015	10:53	28	27	63	0	0.0			6304.9
	12/19/2015 11:28	12/19/2015	11:28	26	23	65	6	11.4	199.8	22.86	6327.7
	12/19/2015 11:29	12/19/2015	11:29	34	28.5	65	13	27.1	19.3	2.20	6329.9
	12/19/2015 12:55	12/19/2015	12:55	32	27	67	16.5	33.6	2610.0	298.58	6628.5
	12/19/2015 13:45	12/19/2015	13:45	32	26	67	18	36.7	1756.4	200.93	6829.4
	12/19/2015 14:52	12/19/2015	14:52	32	25.5	68	18	36.6	2454.7	280.82	7110.2
	12/19/2015 15:48	12/19/2015	15:48	31.5	25.5	68	18	36.4	2045.1	233.96	7344.2
	12/19/2015 17:16	12/19/2015	17:16	32	26	64	20	40.8	3399.8	388.94	7733.1
	12/19/2015 17:17	12/19/2015	17:17		18				40.8	4.67	7737.8
	12/22/2015 7:42	12/22/2015	7:42	28	27	71	0	0.0			7737.8
SW-176 Event 8	12/22/2015 8:07	12/22/2015	8:07	28	24.5	70	4	7.8	97.0	11.10	7748.9
	12/22/2015 8:08	12/22/2015	8:08	32	29	70	8	16.2	12.0	1.37	7750.3
	12/22/2015 10:23	12/22/2015	10:23	30.5	26.5	72	12.5	24.9	2778.2	317.82	8068.1
	12/22/2015 11:02	12/22/2015	11:02	30	26	72	13	25.8	988.3	113.06	8181.2
	12/22/2015 11:03	12/22/2015	11:03		18				25.8	2.95	8184.1
	1/5/2016 7:33	1/5/2016	7:33	27	26	43	0	0.0			8184.1
SW-176 Event 9	1/5/2016 7:59	1/5/2016	7:59	25.5	23	46	4	7.7	100.2	11.47	8195.6
	1/5/2016 8:00	1/5/2016	8:00	31	28.5	46	7	14.4	11.1	1.26	8196.8
	1/5/2016 9:34	1/5/2016	9:34	30	27.5	53	10.5	21.2	1673.5	191.45	8388.3
	1/5/2016 11:21	1/5/2016	11:21	29	26.5	60	12	23.8	2407.3	275.40	8663.7
	1/5/2016 12:54	1/5/2016	12:54	29	26	62	13.5	26.7	2348.4	268.66	8932.3
	1/5/2016 14:13	1/5/2016	14:13	29	25	58	14	27.8	2153.7	246.38	9178.7
	1/5/2016 15:38	1/5/2016	15:38	29	25	57	14	27.8	2365.2	270.58	9449.3
	1/5/2016 16:55	1/5/2016	16:55	28.5	25	56	13.5	26.7	2100.4	240.28	9689.6
	1/5/2016 16:56	1/5/2016	16:56		18				26.7	3.06	9692.6
	1/12/2016 7:44	1/12/2016	7:44	29.5	27.5	43	0	0.0			9692.6
SW-176 Event 10	1/12/2016 8:08	1/12/2016	8:08	27.5	24	48	5.5	10.8	130.1	14.88	9707.5
	1/12/2016 8:09	1/12/2016	8:09	31	27.5	48	9.5	19.5	15.2	1.74	9709.3
	1/12/2016 9:54	1/12/2016	9:54	27.5	27	67	12	23.2	2242.5	256.54	9965.8
	1/12/2016 11:15	1/12/2016	11:15	27	25	68	13.5	25.9	1990.3	227.69	10193.5
	1/12/2016 12:30	1/12/2016	12:30	27	25	67	13.5	26.0	1945.8	222.60	10416.1
	1/12/2016 14:39	1/12/2016	14:39	27	25	68	13.5	25.9	3346.8	382.87	10799.0
	1/12/2016 16:07	1/12/2016	16:07	26.5	25	70	13.5	25.7	2272.8	260.01	11059.0
	1/12/2016 17:09	1/12/2016	17:09	29	24	68	14	27.5	1651.1	188.88	11247.9
	1/12/2016 17:10	1/12/2016	17:10		18.5				27.5	3.15	11251.0
	1/14/2016 7:36	1/14/2016	7:36	28	27.5	45	0	0.0			11251.0
SW-176 Event 11	1/14/2016 8:01	1/14/2016	8:01	26.5	23.5	50	5	9.7	121.5	13.90	11264.9
	1/14/2016 8:02	1/14/2016	8:02	31	27.5	50	11.5	23.6	16.6	1.90	11266.8
	1/14/2016 8:16	1/14/2016	8:16		19				329.8	37.73	11304.5

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-176 Event 12	1/18/2016 8:07	1/18/2016	8:07	26	25	50	0	0.0				11304.5
	1/18/2016 8:46	1/18/2016	8:46	24	22	57	5	9.3	182.3	20.85	11325.4	
	1/18/2016 8:47	1/18/2016	8:47	33	32	57	15	31.2	20.3	2.32	11327.7	
	1/18/2016 10:26	1/18/2016	10:26	32	30	62	18.5	37.9	3417.7	390.99	11718.7	
	1/18/2016 11:48	1/18/2016	11:48	32	29.5	65	19	38.8	3141.7	359.42	12078.1	
	1/18/2016 13:42	1/18/2016	13:42	32	29	66	20	40.8	4533.6	518.64	12596.8	
	1/18/2016 15:38	1/18/2016	15:38	31	28.5	67	21	42.3	4817.8	551.15	13147.9	
	1/18/2016 17:07	1/18/2016	17:07	31	27.5	63	22	44.5	3861.9	441.80	13589.7	
	1/18/2016 17:16	1/18/2016	17:16		19				400.4	45.80	13635.5	
SW-176 Event 13	1/26/2016 7:55	1/26/2016	7:55	27	27	58	0	0.0				13635.5
	1/26/2016 9:27	1/26/2016	9:27	25	25	64	7	13.2	605.7	69.29	13704.8	
	1/26/2016 9:28	1/26/2016	9:28	32	31.5	64	16	32.7	22.9	2.62	13707.4	
	1/26/2016 11:54	1/26/2016	11:54	32	30	74	18	36.4	5043.2	576.94	14284.4	
	1/26/2016 13:57	1/26/2016	13:57	31.5	29	74	19	38.2	4589.4	525.02	14809.4	
	1/26/2016 15:35	1/26/2016	15:35	31.5	29	72	19.5	39.3	3798.4	434.54	15243.9	
	1/26/2016 16:35	1/26/2016	16:35	31	28.5	70	20	40.2	2384.0	272.72	15516.7	
	1/26/2016 16:36	1/26/2016	16:36		19				40.2	4.59	15521.2	
	SW-176 Event 14	1/29/2016 7:19	1/29/2016	7:19	29.5	30	51	0	0.0			
1/29/2016 7:40		1/29/2016	7:40	26.5	26	53	8	15.5	162.8	18.62	15539.9	
1/29/2016 7:42		1/29/2016	7:42	32.5	31.5	53	14	29.1	44.6	5.10	15545.0	
1/29/2016 9:18		1/29/2016	9:18	31	29.5	66	19	38.3	3234.0	369.97	15914.9	
1/29/2016 10:42		1/29/2016	10:42	31	28	69	20	40.2	3297.4	377.23	16292.2	
1/29/2016 11:55		1/29/2016	11:55	31.5	28	70	20	40.4	2941.6	336.52	16628.7	
1/29/2016 11:56		1/29/2016	11:56		18.5				40.4	4.62	16633.3	
SW-176 Event 15		2/3/2016 7:13	2/3/2016	7:13	29.5	29.5	74	0	0.0			
	2/3/2016 7:30	2/3/2016	7:30	27	26.5	74	8	15.3	129.9	14.86	16648.1	
	2/3/2016 7:32	2/3/2016	7:32	32	31.5	74	12	24.3	39.5	4.52	16652.7	
	2/3/2016 9:37	2/3/2016	9:37	31	28.5	74	18	36.0	3767.4	430.99	17083.7	
	2/3/2016 11:13	2/3/2016	11:13	30.5	27.5	78	19	37.7	3535.6	404.48	17488.1	
	2/3/2016 12:40	2/3/2016	12:40	30.5	27.5	78	19.5	38.6	3318.8	379.67	17867.8	
	2/3/2016 14:29	2/3/2016	14:29	30.5	27	80	20	39.6	4261.9	487.56	18355.4	
	2/3/2016 15:25	2/3/2016	15:25	30.5	27	80	20.5	40.5	2242.9	256.59	18611.9	
	2/3/2016 16:25	2/3/2016	16:25	30	26.5	76	21	41.5	2460.2	281.45	18893.4	
	2/3/2016 16:26	2/3/2016	16:26		19				41.5	4.74	18898.1	
SW-176 Event 16	2/12/2016 7:27	2/12/2016	7:27	31	29	60	0	0.0				18898.1
	2/12/2016 7:49	2/12/2016	7:49	28	26	60	8	15.7	172.4	19.73	18917.9	
	2/12/2016 7:50	2/12/2016	7:50	35	32	60	15	31.7	23.7	2.71	18920.6	
	2/12/2016 8:53	2/12/2016	8:53	34.5	30.5	60	18	37.9	2194.0	250.99	19171.6	
	2/12/2016 10:12	2/12/2016	10:12	33.5	29.5	65	20	41.5	3135.1	358.66	19530.2	
	2/12/2016 10:13	2/12/2016	10:13	34.5	30.5	65	20	41.9	41.7	4.77	19535.0	
	2/12/2016 11:09	2/12/2016	11:09	35	30	67	22	46.2	2468.0	282.34	19817.3	
	2/12/2016 12:10	2/12/2016	12:10	34.5	29	70	22	45.9	2809.3	321.38	20138.7	
	2/12/2016 12:11	2/12/2016	12:11		20				45.9	5.25	20144.0	
	Total CO ₂ Mass (lbs):											20144.0

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-177 Event 1	10/22/2015 12:37	10/22/2015	12:37	11	11	90	0	0.0			0
	10/22/2015 12:42	10/22/2015	12:42	15	15	90	0	0.0	0.0	0.00	0.0
	10/22/2015 12:49	10/22/2015	12:49	18	18	90	0	0.0	0.0	0.00	0.0
	10/22/2015 12:56	10/22/2015	12:56	20	21	90	0	0.0	0.0	0.00	0.0
	10/22/2015 13:02	10/22/2015	13:02	22	24	90	0	0.0	0.0	0.00	0.0
	10/22/2015 13:08	10/22/2015	13:08	24	25	91	0	0.0	0.0	0.00	0.0
	10/22/2015 13:13	10/22/2015	13:13	26	27	91	0	0.0	0.0	0.00	0.0
	10/22/2015 13:18	10/22/2015	13:18	28	29	91	0	0.0	0.0	0.00	0.0
	10/22/2015 13:23	10/22/2015	13:23	30	31	91	0	0.0	0.0	0.00	0.0
	10/22/2015 13:25	10/22/2015	13:25	33	34	91	<2	0.0	0.0	0.00	0.0
	10/22/2015 14:40	10/22/2015	14:40	34	34	84	4	8.2	306.9	35.11	35.1
	10/22/2015 15:42	10/22/2015	15:42	34	33	80	5	10.3	572.1	65.45	100.6
	10/22/2015 15:48	10/22/2015	15:48	35	34	80	7	14.5	74.4	8.51	109.1
	10/22/2015 16:20	10/22/2015	16:20	35	34	78	7	14.6	465.3	53.23	162.3
10/22/2015 17:11	10/22/2015	17:11	35	34	80	7	14.5	741.6	84.84	247.2	
10/22/2015 17:12	10/22/2015	17:12		29				14.5	1.66	248.8	
SW-177 Event 2	11/24/2015 7:25	11/24/2015	7:25	27	27	48	0	0.0			248.8
	11/24/2015 7:58	11/24/2015	7:58	26	26	53	0	0.0	0.0	0.00	248.8
	11/24/2015 7:59	11/24/2015	7:59	33	33	53	4	8.3	4.2	0.48	249.3
	11/24/2015 8:57	11/24/2015	8:57	33	33	61	4.5	9.3	512.4	58.62	307.9
	11/24/2015 10:23	11/24/2015	10:23	34	32.5	66	5.5	11.5	893.1	102.18	410.1
	11/24/2015 10:24	11/24/2015	10:24	35	34.5	66	9	18.9	15.2	1.74	411.8
	11/24/2015 11:30	11/24/2015	11:30	34	33	68	8	16.6	1173.5	134.25	546.1
	11/24/2015 11:31	11/24/2015	11:31		28.5				16.6	1.90	548.0
SW-177 Event 3	11/30/2015 12:19	11/30/2015	12:19	27.5	27.5	94	0	0.0			548.0
	11/30/2015 12:56	11/30/2015	12:56	27.5	27	91	0	0.0	0.0	0.00	548.0
	11/30/2015 12:59	11/30/2015	12:59	33	33	91	3	6.0	9.1	1.04	549.0
	11/30/2015 14:42	11/30/2015	14:42	33	33	84	4	8.1	727.9	83.27	632.3
	11/30/2015 16:01	11/30/2015	16:01	33	33	80	4	8.1	641.1	73.34	705.6
	11/30/2015 17:11	11/30/2015	17:11	33	33	74	4	8.2	570.8	65.30	770.9
	11/30/2015 17:13	11/30/2015	17:13		27				16.4	1.87	772.8
SW-177 Event 4	12/2/2015 8:23	12/2/2015	8:23	26	26	70	0	0.0			772.8
	12/2/2015 9:17	12/2/2015	9:17	26	25.5	72	0	0.0	0.0	0.00	772.8
	12/2/2015 9:18	12/2/2015	9:18	34	33.5	72	3	6.2	3.1	0.36	773.1
	12/2/2015 11:37	12/2/2015	11:37	34	33	80	6	12.3	1288.2	147.37	920.5
	12/2/2015 12:54	12/2/2015	12:54	34	32.5	80	6.5	13.4	988.5	113.09	1033.6
	12/2/2015 14:23	12/2/2015	14:23	32	31.5	83	6.5	13.0	1174.1	134.32	1167.9
	12/2/2015 15:52	12/2/2015	15:52	32	31	74	7	14.2	1210.0	138.42	1306.3
	12/2/2015 17:04	12/2/2015	17:04	31	30	72	8	16.0	1086.9	124.34	1430.7
	12/2/2015 17:11	12/2/2015	17:11		26				112.2	12.84	1443.5

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-177 Event 5	12/9/2015 7:42	12/9/2015	7:42	28	29	55	0	0.0				1443.5
	12/9/2015 8:18	12/9/2015	8:18	28	27.5	58	0	0.0	0.0	0.00		1443.5
	12/9/2015 8:19	12/9/2015	8:19	35	34	58	6	12.7	6.4	0.73		1444.2
	12/9/2015 9:16	12/9/2015	9:16	35	33.5	66	6.5	13.7	752.4	86.07		1530.3
	12/9/2015 10:23	12/9/2015	10:23	34	33	72	7	14.5	943.6	107.94		1638.3
	12/9/2015 11:44	12/9/2015	11:44	33.5	32.5	76	7.5	15.4	1209.9	138.42		1776.7
	12/9/2015 12:51	12/9/2015	12:51	34.5	33	77	9.5	19.7	1174.4	134.35		1911.0
	12/9/2015 14:13	12/9/2015	14:13	34.5	33	73	9.5	19.7	1616.2	184.90		2095.9
	12/9/2015 15:15	12/9/2015	15:15	34.5	33	76	9.5	19.7	1222.6	139.87		2235.8
	12/9/2015 16:51	12/9/2015	16:51	34.5	33	72	10	20.8	1944.0	222.39		2458.2
	12/9/2015 16:52	12/9/2015	16:52		27.5				20.8	2.38		2460.6
	SW-177 Event 6	12/11/2015 7:42	12/11/2015	7:42	29.5	29	54	0	0.0			
12/11/2015 8:11		12/11/2015	8:11	28	27.5	60	4	7.8	113.6	13.00		2473.6
12/11/2015 8:12		12/11/2015	8:12	35	33.5	60	9.5	20.1	14.0	1.60		2475.2
12/11/2015 9:12		12/11/2015	9:12	32.5	30.5	68	10.5	21.5	1247.5	142.72		2617.9
12/11/2015 10:14		12/11/2015	10:14	32	30	73	10.5	21.3	1324.8	151.55		2769.4
12/11/2015 10:58		12/11/2015	10:58	35	33	74	14	29.2	1110.6	127.05		2896.5
12/11/2015 10:59		12/11/2015	10:59		27				29.2	3.34		2899.8
SW-177 Event 7		1/7/2016 8:00	1/7/2016	8:00	30	30	56	0	0.0			
	1/7/2016 8:30	1/7/2016	8:30	30	29	55	0	0.0	0.0	0.00		2899.8
	1/7/2016 8:31	1/7/2016	8:31	34	34	55	5	10.5	5.3	0.60		2900.4
	1/7/2016 10:24	1/7/2016	10:24	34	32.5	60	8	16.8	1541.6	176.36		3076.8
	1/7/2016 11:45	1/7/2016	11:45	33.5	32	62	9.5	19.8	1478.8	169.18		3246.0
	1/7/2016 14:32	1/7/2016	14:32	33	31	64	11	22.7	3545.9	405.66		3651.6
	1/7/2016 15:32	1/7/2016	15:32	33	30.5	63	12	24.8	1425.3	163.05		3814.7
	1/7/2016 17:09	1/7/2016	17:09	33	31	62	12	24.8	2406.7	275.33		4090.0
	1/7/2016 17:10	1/7/2016	17:10		27.5				24.8	2.84		4092.8
	SW-177 Event 8	2/18/2016 7:36	2/18/2016	7:36	32	32.5	49	0	0.0			
2/18/2016 7:56		2/18/2016	7:56	31	30.5	52	3.5	7.2	71.6	8.19		4101.0
2/18/2016 7:57		2/18/2016	7:57	36	34.5	52	9.5	20.5	13.8	1.58		4102.6
2/18/2016 9:15		2/18/2016	9:15	36	34	60	10	21.4	1632.4	186.75		4289.4
2/18/2016 10:49		2/18/2016	10:49	36	33	64	11.5	24.5	2155.9	246.64		4536.0
2/18/2016 12:25		2/18/2016	12:25	35	32.5	67	12.5	26.3	2436.6	278.75		4814.7
2/18/2016 13:19		2/18/2016	13:19	35	32.5	67	13	27.3	1447.1	165.55		4980.3
2/18/2016 14:34		2/18/2016	14:34	34.5	32	68	13.5	28.2	2082.2	238.20		5218.5
2/18/2016 17:07		2/18/2016	17:07	34.5	31.5	65	14.5	30.4	4481.5	512.68		5731.2
2/18/2016 17:08		2/18/2016	17:08		27.5				30.4	3.48		5734.7
SW-177 Event 9		2/22/2016 7:29	2/22/2016	7:29	31	31	62	0	0.0			
	2/22/2016 7:44	2/22/2016	7:44	29.5	27.5	63	4.5	8.9	67.1	7.68		5742.3
	2/22/2016 7:45	2/22/2016	7:45	37	35	63	13	28.0	18.5	2.11		5744.4
	2/22/2016 9:13	2/22/2016	9:13	36.5	34	66	15	32.0	2641.2	302.16		6046.6
	2/22/2016 11:23	2/22/2016	11:23	36	33	72	16	33.8	4279.9	489.62		6536.2
	2/22/2016 13:38	2/22/2016	13:38	36	33	75	16	33.7	4557.0	521.32		7057.5
	2/22/2016 15:09	2/22/2016	15:09	36	32.5	76	16.5	34.7	3113.7	356.20		7413.7
	2/22/2016 17:01	2/22/2016	17:01	36	32	70	17.5	37.0	4019.3	459.80		7873.5
	2/22/2016 17:02	2/22/2016	17:02		26				37.0	4.24		7877.8
SW-177 Event 10	2/24/2016 7:30	2/24/2016	7:30	30	29	68	3	6.0				7877.8
	2/24/2016 7:38	2/24/2016	7:38	37	34	68	10	21.4	109.6	12.53		7890.3
	2/24/2016 9:01	2/24/2016	9:01	35	31	70	18	37.7	2454.5	280.79		8171.1
	2/24/2016 9:03	2/24/2016	9:03	38	33	70	22	47.5	85.2	9.75		8180.9

LCP Chemicals Site, Brunswick, GA
 SW-177

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/24/2016 9:46	2/24/2016	9:46	39	33	72	22	47.9		2050.2	234.54	8415.4
	2/24/2016 9:47	2/24/2016	9:47		26.5					47.9	5.48	8420.9
Total CO ₂ Mass (lbs):											8420.9	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-178 Event 1	10/26/2015 9:16	10/26/2015	9:16	22	20	72	0	0.0				0
	10/26/2015 9:20	10/26/2015	9:20	24	23	72	0	0.0		0.0	0.00	0.0
	10/26/2015 9:23	10/26/2015	9:23	26	28	72	0	0.0		0.0	0.00	0.0
	10/26/2015 9:36	10/26/2015	9:36	28	30	73	0	0.0		0.0	0.00	0.0
	10/26/2015 9:46	10/26/2015	9:46	30	31	74	<2	0.0		0.0	0.00	0.0
	10/26/2015 9:58	10/26/2015	9:58	32	33	74	4	8.1		48.5	5.55	5.6
	10/26/2015 10:00	10/26/2015	10:00	33	34	74	5	10.2		18.3	2.09	7.6
	10/26/2015 11:29	10/26/2015	11:29	33	33	80	6	12.2		997.6	114.12	121.8
	10/26/2015 11:30	10/26/2015	11:30	34	34	80	9	18.5		15.3	1.76	123.5
	10/26/2015 13:02	10/26/2015	13:02	34	34	80	8	16.4		1606.3	183.76	307.3
	10/26/2015 14:08	10/26/2015	14:08	34	34	78	9	18.5		1153.5	131.96	439.2
	10/26/2015 15:14	10/26/2015	15:14	35	34	79	9	18.7		1228.2	140.51	579.8
10/26/2015 15:15	10/26/2015	15:15		28.5					18.7	2.14	581.9	
SW-178 Event 2	11/23/2015 8:08	11/23/2015	8:08	26.5	27	46	0	0.0				581.9
	11/23/2015 8:34	11/23/2015	8:34	26.5	26.5	52	0	0.0		0.0	0.00	581.9
	11/23/2015 8:36	11/23/2015	8:36	32	33.5	52	4	8.3		8.3	0.95	582.8
	11/23/2015 9:45	11/23/2015	9:45	33	33	60	4	8.3		571.3	65.36	648.2
	11/23/2015 11:58	11/23/2015	11:58	33	32	68	7	14.4		1508.6	172.59	820.8
	11/23/2015 14:25	11/23/2015	14:25	32	31	70	7	14.2		2102.7	240.54	1061.3
	11/23/2015 14:28	11/23/2015	14:28	34	33	70	11	22.8		55.5	6.35	1067.7
	11/23/2015 15:35	11/23/2015	15:35	34	33	70	10.5	21.8		1493.9	170.90	1238.6
	11/23/2015 17:17	11/23/2015	17:17	34	32	64	10	20.9		2174.8	248.79	1487.4
	11/23/2015 17:18	11/23/2015	17:18		27					20.9	2.39	1489.8
SW-178 Event 3	12/3/2015 7:55	12/3/2015	7:55	25	26	58	0	0.0				1489.8
	12/3/2015 8:18	12/3/2015	8:18	24	23.5	60	0	0.0		0.0	0.00	1489.8
	12/3/2015 8:19	12/3/2015	8:19	31	31.5	60	4	8.1		4.1	0.46	1490.2
	12/3/2015 10:33	12/3/2015	10:33	31	31	65	6	12.1		1354.8	154.99	1645.2
	12/3/2015 11:52	12/3/2015	11:52	31	31	70	6	12.0		954.2	109.17	1754.4
	12/3/2015 14:00	12/3/2015	14:00	31	30	72	7	14.0		1669.1	190.94	1945.3
	12/3/2015 15:33	12/3/2015	15:33	31	30	71	7.5	15.0		1352.1	154.68	2100.0
	12/3/2015 17:14	12/3/2015	17:14	31	30	66	8	16.1		1574.4	180.11	2280.1
	12/3/2015 17:15	12/3/2015	17:15		27					16.1	1.85	2282.0
	12/3/2015 17:15	12/3/2015	17:15		27					16.1	1.85	2282.0
SW-178 Event 4	12/8/2015 8:18	12/8/2015	8:18	29	28	64	0	0.0				2282.0
	12/8/2015 8:48	12/8/2015	8:48	29	28.5	65	0	0.0		0.0	0.00	2282.0
	12/8/2015 8:50	12/8/2015	8:50	34	33.5	65	3	6.3		6.3	0.72	2282.7
	12/8/2015 10:32	12/8/2015	10:32	33.5	32.5	74	6.5	13.4		1000.2	114.42	2397.1
	12/8/2015 11:43	12/8/2015	11:43	33	32	76	8	16.3		1053.7	120.55	2517.6
	12/8/2015 11:44	12/8/2015	11:44	35	34	76	12	25.0		20.7	2.36	2520.0
	12/8/2015 12:45	12/8/2015	12:45	35.5	34	76	12	25.1		1528.9	174.91	2694.9
	12/8/2015 14:15	12/8/2015	14:15	35	33.5	76	12	25.0		2255.8	258.07	2953.0
	12/8/2015 15:45	12/8/2015	15:45	35	33	74	13	27.1		2346.2	268.41	3221.4
	12/8/2015 17:01	12/8/2015	17:01	35	32.5	70	14	29.3		2146.1	245.51	3466.9
	12/8/2015 17:02	12/8/2015	17:02		27.5					29.3	3.36	3470.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-178 Event 5	1/6/2016 7:54	1/6/2016	7:54	27	27	49	0	0.0			3470.3
	1/6/2016 8:21	1/6/2016	8:21	27	27	47	0	0.0	0.0	0.00	3470.3
	1/6/2016 8:22	1/6/2016	8:22	34	34	47	4	8.5	4.2	0.49	3470.7
	1/6/2016 10:28	1/6/2016	10:28	33.5	32.5	57	7	14.6	1456.6	166.64	3637.4
	1/6/2016 11:56	1/6/2016	11:56	33	32	60	8	16.6	1373.4	157.11	3794.5
	1/6/2016 13:45	1/6/2016	13:45	33	31.5	60	9.5	19.7	1976.9	226.16	4020.7
	1/6/2016 17:07	1/6/2016	17:07	33	31.5	59	11	22.8	4294.0	491.23	4511.9
	1/7/2016 7:48	1/7/2016	7:48	32	30	57	14	28.8	22737.6	2601.18	7113.1
	1/7/2016 7:49	1/7/2016	7:49		25				28.8	3.29	7116.4
SW-178 Event 6	2/17/2016 7:33	2/17/2016	7:33	31	29	52	0	0.0			7116.4
	2/17/2016 7:46	2/17/2016	7:46	29.5	28	55	4	8.0	52.1	5.96	7122.3
	2/17/2016 8:08	2/17/2016	8:08	34	32	55	8	16.8	273.4	31.28	7153.6
	2/17/2016 10:18	2/17/2016	10:18	34	32	66	8	16.7	2177.6	249.11	7402.7
	2/17/2016 12:49	2/17/2016	12:49	33.5	32	71	10	20.6	2813.9	321.92	7724.6
	2/17/2016 13:59	2/17/2016	13:59	33.5	32	72	10.5	21.6	1478.2	169.11	7893.7
	2/17/2016 15:04	2/17/2016	15:04	33.5	32	72	10.5	21.6	1405.4	160.78	8054.5
	2/17/2016 16:14	2/17/2016	16:14	33	31.5	71	11	22.6	1546.2	176.88	8231.4
	2/17/2016 16:15	2/17/2016	16:15		26.5				22.6	2.58	8234.0
SW-178 Event 7	2/25/2016 7:27	2/25/2016	7:27	26	28	51	0	0.0			8234.0
	2/25/2016 7:38	2/25/2016	7:38	26.5	30	52	0	0.0	0.0	0.00	8234.0
	2/25/2016 7:39	2/25/2016	7:39	31	35	52	6	12.3	6.1	0.70	8234.7
	2/25/2016 8:44	2/25/2016	8:44	31	34	59	6	12.2	794.6	90.90	8325.6
	2/25/2016 10:25	2/25/2016	10:25	31	33	63	7	14.2	1330.0	152.15	8477.7
	2/25/2016 11:30	2/25/2016	11:30	31	33	65	8	16.1	984.7	112.65	8590.4
	2/25/2016 12:46	2/25/2016	12:46	30	32	66	9	17.9	1295.3	148.18	8738.6
	2/25/2016 14:07	2/25/2016	14:07	30	32	68	10	19.9	1532.5	175.32	8913.9
	2/25/2016 15:02	2/25/2016	15:02	30	32	68	10	19.9	1094.3	125.19	9039.1
	2/25/2016 16:18	2/25/2016	16:18	30	31.5	70	10	19.9	1510.7	172.82	9211.9
	2/25/2016 16:58	2/25/2016	16:58	30	31.5	69	10	19.9	794.7	90.92	9302.8
	2/25/2016 16:59	2/25/2016	16:59		27				19.9	2.27	9305.1
SW-178 Event 8	2/26/2016 7:13	2/26/2016	7:13	30	34	47	<2	0.0			9305.1
	2/26/2016 7:19	2/26/2016	7:19	32.5	36	47	7	14.6	43.9	5.02	9310.1
	2/26/2016 8:35	2/26/2016	8:35	32	34	57	11	22.6	1415.4	161.92	9472.0
	2/26/2016 10:19	2/26/2016	10:19	31	33	60	12	24.3	2442.0	279.37	9751.4
	2/26/2016 11:13	2/26/2016	11:13	31	32	62	12	24.3	1312.9	150.20	9901.6
	2/26/2016 11:14	2/26/2016	11:14		27				24.3	2.78	9904.4
SW-178 Event 9	2/29/2016 8:07	2/29/2016	8:07	32	34	56	<2	0.0			9904.4
	2/29/2016 8:37	2/29/2016	8:37	30.5	32.5	60	4	8.1	121.0	13.84	9918.2
	2/29/2016 8:38	2/29/2016	8:38	34	37	60	10	20.9	14.5	1.66	9919.9
	2/29/2016 10:33	2/29/2016	10:33	34	36	69	11	22.8	2517.6	288.02	10207.9
	2/29/2016 11:16	2/29/2016	11:16	34	36	71	11.5	23.8	1003.3	114.78	10322.7
	2/29/2016 13:34	2/29/2016	13:34	34	35	75	13	26.8	3495.6	399.90	10722.6
	2/29/2016 14:42	2/29/2016	14:42	34	35	75	13	26.8	1824.6	208.73	10931.3
	2/29/2016 15:54	2/29/2016	15:54	34	34.5	75	13.5	27.9	1969.1	225.26	11156.6
	2/29/2016 16:56	2/29/2016	16:56	34	34.5	74	14	28.9	1760.4	201.40	11358.0
	2/29/2016 16:57	2/29/2016	16:57		30				28.9	3.31	11361.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-178 Event 10	3/2/2016 7:27	3/2/2016	7:27	30	33	66	0	0.0				11361.3
	3/2/2016 7:31	3/2/2016	7:31	30	33	66	0	0.0		0.0	0.00	11361.3
	3/2/2016 7:33	3/2/2016	7:33	33	36	66	4	8.2		8.2	0.94	11362.2
	3/2/2016 8:32	3/2/2016	8:32	34	36	66	10	20.8		857.4	98.09	11460.3
	3/2/2016 10:55	3/2/2016	10:55	34	35	70	13	27.0		3416.7	390.87	11851.2
	3/2/2016 13:06	3/2/2016	13:06	34	34.5	73	13.5	27.9		3594.8	411.24	12262.4
	3/2/2016 15:46	3/2/2016	15:46	33.5	34	75	14	28.7		4533.1	518.59	12781.0
	3/2/2016 15:47	3/2/2016	15:47		30			0.0		14.4	1.64	12782.7
Total CO ₂ Mass (lbs):											12782.7	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-179 Event 1	11/11/2015 10:30	11/11/2015	10:30	17	19	76	0	0.0			0
	11/11/2015 10:52	11/11/2015	10:52	17	19	77	0	0.0	0.0	0.00	0.0
	11/11/2015 10:54	11/11/2015	10:54	20	22	77	0	0.0	0.0	0.00	0.0
	11/11/2015 11:10	11/11/2015	11:10	22	24	78	0	0.0	0.0	0.00	0.0
	11/11/2015 11:24	11/11/2015	11:24	24	25	78	0	0.0	0.0	0.00	0.0
	11/11/2015 11:27	11/11/2015	11:27	26	28	78	4	7.5	11.3	1.29	1.3
	11/11/2015 11:31	11/11/2015	11:31	28	29.5	79	6	11.5	38.1	4.36	5.7
	11/11/2015 11:35	11/11/2015	11:35	30	31	79	7	13.8	50.6	5.79	11.4
	11/11/2015 11:39	11/11/2015	11:39	31	32	79	8	15.9	59.4	6.80	18.2
	11/11/2015 12:32	11/11/2015	12:32	31	32	79	8	15.9	844.1	96.57	114.8
	11/11/2015 14:52	11/11/2015	14:52	31	30.5	80	10	19.9	2507.1	286.81	401.6
	11/11/2015 16:00	11/11/2015	16:00	31	30.5	80	10	19.9	1352.5	154.72	556.3
	11/11/2015 16:56	11/11/2015	16:56	31	30.5	77	10.5	20.9	1143.3	130.80	687.1
11/11/2015 16:57	11/11/2015	16:57		24				20.9	2.40	689.5	
SW-179 Event 2	11/21/2015 12:47	11/21/2015	12:47	25	25	79	0	0.0			689.5
	11/21/2015 13:21	11/21/2015	13:21	25	23	80	<2	0.0	0.0	0.00	689.5
	11/21/2015 13:23	11/21/2015	13:23	30	29	80	8	15.7	15.7	1.80	691.3
	11/21/2015 14:33	11/21/2015	14:33	30	28.5	74	9	17.8	1173.8	134.28	825.6
	11/21/2015 15:43	11/21/2015	15:43	30	28	72	9.5	18.8	1282.1	146.67	972.3
	11/21/2015 15:44	11/21/2015	15:44	33	30.5	72	14.5	29.7	24.3	2.78	975.1
	11/21/2015 17:19	11/21/2015	17:19	34	30.5	70	15	31.1	2888.6	330.46	1305.5
	11/21/2015 17:24	11/21/2015	17:24		25				155.6	17.80	1323.3
SW-179 Event 3	12/2/2015 8:27	12/2/2015	8:27	26	25	70	0	0.0			1323.3
	12/2/2015 9:19	12/2/2015	9:19	25.5	23	72	<2	0.0	0.0	0.00	1323.3
	12/2/2015 9:20	12/2/2015	9:20	32	30	72	10	20.3	10.1	1.16	1324.5
	12/2/2015 11:39	12/2/2015	11:39	32	29	80	12	24.1	3085.4	352.97	1677.4
	12/2/2015 12:55	12/2/2015	12:55	32	29	80	12.5	25.1	1872.1	214.17	1891.6
	12/2/2015 14:24	12/2/2015	14:24	31	27.5	83	12.5	24.8	2221.7	254.16	2145.8
	12/2/2015 15:53	12/2/2015	15:53	30.5	27	74	14	27.9	2342.5	267.98	2413.8
	12/2/2015 17:06	12/2/2015	17:06	29.5	26	72	13	25.6	1951.6	223.27	2637.0
	12/2/2015 17:07	12/2/2015	17:07		22.5				25.6	2.93	2640.0
SW-179 Event 4	12/10/2015 8:00	12/10/2015	8:00	27	27	52	0	0.0			2640.0
	12/10/2015 8:28	12/10/2015	8:28	26	24	60	5	9.6	133.9	15.31	2655.3
	12/10/2015 8:29	12/10/2015	8:29	34	31	60	15.5	32.5	21.0	2.40	2657.7
	12/10/2015 9:27	12/10/2015	9:27	34.5	31	68	15.5	32.4	1880.6	215.14	2872.8
	12/10/2015 10:34	12/10/2015	10:34	34	30.5	73	16.5	34.1	2227.8	254.86	3127.7
	12/10/2015 11:39	12/10/2015	11:39	34	30	75	17	35.1	2249.4	257.33	3385.0
	12/10/2015 12:26	12/10/2015	12:26	33.5	30	75	17	34.9	1644.8	188.17	3573.2
	12/10/2015 13:22	12/10/2015	13:22	33.5	30	76	18	36.9	2011.2	230.08	3803.3
	12/10/2015 14:39	12/10/2015	14:39	33.5	30	76	18	36.9	2843.0	325.24	4128.5
	12/10/2015 15:39	12/10/2015	15:39	33.5	29.5	75	18.5	38.0	2247.2	257.08	4385.6
	12/10/2015 16:54	12/10/2015	16:54	33	29	70	18.5	38.0	2848.3	325.84	4711.4
	12/10/2015 16:55	12/10/2015	16:55		23.5				38.0	4.34	4715.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-179 Event 5	1/6/2016 7:48	1/6/2016	7:48	29	29	48	0	0.0				4715.8
	1/6/2016 8:16	1/6/2016	8:16	27.5	27	53	4	7.8	109.8	12.57		4728.3
	1/6/2016 8:17	1/6/2016	8:17	33	32	53	12	25.0	16.4	1.88		4730.2
	1/6/2016 10:19	1/6/2016	10:19	33	32	65	13	26.8	3163.6	361.91		5092.1
	1/6/2016 11:42	1/6/2016	11:42	33	32	66	14	28.8	2309.8	264.25		5356.4
	1/6/2016 13:37	1/6/2016	13:37	32	30.5	66	14.5	29.6	3358.2	384.18		5740.5
	1/6/2016 16:56	1/6/2016	16:56	32.5	31	64	17	34.9	6414.4	733.81		6474.4
	1/6/2016 16:58	1/6/2016	16:58		24				69.8	7.99		6482.3
SW-179 Event 6	1/11/2016 7:18	1/11/2016	7:18	28	28	42	0	0.0				6482.3
	1/11/2016 8:04	1/11/2016	8:04	28	25.5	52	8	15.8	363.4	41.58		6523.9
	1/11/2016 8:05	1/11/2016	8:05	33	28.5	52	14	29.3	22.5	2.58		6526.5
	1/11/2016 9:55	1/11/2016	9:55	30	28.5	64	14	28.0	3147.1	360.03		6886.5
	1/11/2016 11:40	1/11/2016	11:40	30	28	66	14	27.9	2933.5	335.59		7222.1
	1/11/2016 13:42	1/11/2016	13:42	30	28	66	14.5	28.9	3465.9	396.50		7618.6
	1/11/2016 15:10	1/11/2016	15:10	30	28	68	14.5	28.9	2541.4	290.73		7909.3
	1/11/2016 17:01	1/11/2016	17:01	32	27	68	15	30.5	3294.8	376.93		8286.3
1/11/2016 17:02	1/11/2016	17:02		23				30.5	3.49		8289.8	
SW-179 Event 7	1/13/2016 8:00	1/13/2016	8:00	27	25.5	44	0	0.0				8289.8
	1/13/2016 8:28	1/13/2016	8:28	26	22.5	54	4	7.7	107.7	12.32		8302.1
	1/13/2016 8:29	1/13/2016	8:29	32	28	54	13	26.8	17.3	1.97		8304.1
	1/13/2016 10:12	1/13/2016	10:12	29	27.5	68	13	25.6	2698.1	308.66		8612.7
	1/13/2016 11:44	1/13/2016	11:44	29	27.5	69	13.5	26.5	2396.6	274.17		8886.9
	1/13/2016 14:01	1/13/2016	14:01	32	27	68	14	28.5	3768.2	431.08		9318.0
	1/13/2016 15:38	1/13/2016	15:38	32	27	67	14	28.5	2764.1	316.21		9634.2
	1/13/2016 17:02	1/13/2016	17:02	32	27	64	14	28.6	2398.4	274.37		9908.6
1/13/2016 17:03	1/13/2016	17:03		22				28.6	3.27		9911.8	
SW-179 Event 8	1/15/2016 7:13	1/15/2016	7:13	28.5	26	65	0	0.0				9911.8
	1/15/2016 7:47	1/15/2016	7:47	27	25	65	7	13.5	229.3	26.23		9938.1
	1/15/2016 7:48	1/15/2016	7:48	33	30	65	14	28.9	21.2	2.42		9940.5
	1/15/2016 8:52	1/15/2016	8:52	33	28	65	15.5	32.0	1947.0	222.74		10163.2
	1/15/2016 10:33	1/15/2016	10:33	33	27.5	64	16	33.0	3282.6	375.52		10538.7
	1/15/2016 11:24	1/15/2016	11:24	33	27.5	64	16	33.0	1684.7	192.73		10731.5
	1/15/2016 11:25	1/15/2016	11:25		23				33.0	3.78		10735.2
SW-179 Event 9	1/20/2016 7:41	1/20/2016	7:41	27	28	40	0	0.0				10735.2
	1/20/2016 8:09	1/20/2016	8:09	25	25	48	4	7.6	107.0	12.24		10747.5
	1/20/2016 8:10	1/20/2016	8:10	33	32.5	48	15	31.5	19.6	2.24		10749.7
	1/20/2016 9:33	1/20/2016	9:33	33.5	32	66	16	33.1	2681.5	306.76		11056.5
	1/20/2016 11:19	1/20/2016	11:19	33	32	70	16	32.8	3497.0	400.05		11456.5
	1/20/2016 12:27	1/20/2016	12:27	33	31	70	17	34.9	2302.8	263.44		11720.0
	1/20/2016 14:15	1/20/2016	14:15	33	30.5	69	17.5	36.0	3825.5	437.63		12157.6
	1/20/2016 15:45	1/20/2016	15:45	33	30	69	18	37.0	3281.9	375.45		12533.1
	1/20/2016 16:49	1/20/2016	16:49	33	30	66	18	37.1	2370.1	271.14		12804.2
1/20/2016 16:50	1/20/2016	16:50		22.5				37.1	4.24		12808.4	
SW-179 Event 10	1/27/2016 7:13	1/27/2016	7:13	27	28	63	<2	0.0				12808.4
	1/27/2016 7:28	1/27/2016	7:28	26	25	63	7	13.3	100.1	11.45		12819.9
	1/27/2016 7:29	1/27/2016	7:29	34	32	63	16	33.4	23.4	2.67		12822.6
	1/27/2016 9:24	1/27/2016	9:24	34	32	66	18	37.5	4076.6	466.36		13288.9
	1/27/2016 11:05	1/27/2016	11:05	33.5	32	80	18	36.8	3750.2	429.02		13718.0
	1/27/2016 12:19	1/27/2016	12:19	33	32	80	18.5	37.6	2752.2	314.85		14032.8
	1/27/2016 14:10	1/27/2016	14:10	33	31	73	19.5	39.9	4301.6	492.11		14524.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/27/2016 16:05	1/27/2016	16:05	33	30	74	20	40.9		4645.5	531.45	15056.4
	1/27/2016 16:55	1/27/2016	16:55	33	30	70	20	41.0		2048.4	234.33	15290.7
	1/27/2016 16:56	1/27/2016	16:56		22.5					41.0	4.70	15295.4
SW-179 Event 11	2/2/2016 8:15	2/2/2016	8:15	26	25	68	0	0.0				15295.4
	2/2/2016 8:33	2/2/2016	8:33	26	23	68	4.5	8.5		76.8	8.79	15304.2
	2/2/2016 8:34	2/2/2016	8:34	32	28	68	12	24.4		16.5	1.88	15306.1
	2/2/2016 10:22	2/2/2016	10:22	29	28	80	12.5	24.3		2630.7	300.95	15607.0
	2/2/2016 12:30	2/2/2016	12:30	29	27.5	80	13	25.3		3173.1	363.01	15970.0
	2/2/2016 14:32	2/2/2016	14:32	29	27.5	79	13	25.3		3085.2	352.94	16323.0
	2/2/2016 15:48	2/2/2016	15:48	29	27	81	13.5	26.2		1957.9	223.98	16546.9
	2/2/2016 15:49	2/2/2016	15:49		22.5					26.2	3.00	16549.9
Total CO ₂ Mass (lbs):											16549.9	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-181 Event 1	10/26/2015 11:38	10/26/2015	11:38	23	23	86	0	0.0				0
	10/26/2015 11:51	10/26/2015	11:51	25	26	87	0	0.0		0.0	0.00	0.0
	10/26/2015 12:04	10/26/2015	12:04	25	25	87	0	0.0		0.0	0.00	0.0
	10/26/2015 12:05	10/26/2015	12:05	27	28	87	0	0.0		0.0	0.00	0.0
	10/26/2015 12:22	10/26/2015	12:22	29	30	87	<2	0.0		0.0	0.00	0.0
	10/26/2015 12:30	10/26/2015	12:30	31	32	87	3	5.9		23.7	2.71	2.7
	10/26/2015 12:35	10/26/2015	12:35	32	33	87	3	6.0		29.8	3.41	6.1
	10/26/2015 13:24	10/26/2015	13:24	32	32	84	3.5	7.0		318.6	36.45	42.6
	10/26/2015 13:25	10/26/2015	13:25	33	33	84	4	8.1		7.6	0.86	43.4
	10/26/2015 14:17	10/26/2015	14:17	33	33	83	4	8.1		421.4	48.20	91.6
10/26/2015 15:13	10/26/2015	15:13	33	33	82	5	10.1		511.0	58.46	150.1	
10/26/2015 15:14	10/26/2015	15:14		27					10.1	1.16	151.3	
SW-181 Event 2	11/18/2015 8:25	11/18/2015	8:25	28	27.5	82	0	0.0				151.3
	11/18/2015 9:33	11/18/2015	9:33	27	25	80	0	0.0		0.0	0.00	151.3
	11/18/2015 9:34	11/18/2015	9:34	32	30.5	80	8.5	17.1		8.5	0.98	152.2
	11/18/2015 10:56	11/18/2015	10:56	32	30	82	8	16.1		1359.1	155.48	307.7
	11/18/2015 12:05	11/18/2015	12:05	32	30	83	8.5	17.0		1141.9	130.64	438.4
	11/18/2015 13:20	11/18/2015	13:20	32	29.5	80	9	18.1		1317.8	150.76	589.1
	11/18/2015 15:18	11/18/2015	15:18	32	29	78	10	20.1		2256.5	258.14	847.2
	11/18/2015 16:44	11/18/2015	16:44	32	29	78	10	20.1		1732.7	198.22	1045.5
	11/18/2015 16:45	11/18/2015	16:45		24					20.1	2.30	1047.8
SW-181 Event 3	11/20/2015 7:51	11/20/2015	7:51	28	29	69	0	0.0				1047.8
	11/20/2015 8:15	11/20/2015	8:15	27.5	25.5	73	7.5	14.4		173.1	19.80	1067.6
	11/20/2015 8:17	11/20/2015	8:17	32	29	73	11	22.3		36.7	4.20	1071.8
	11/20/2015 9:56	11/20/2015	9:56	32	29	79	11.5	23.1		2248.1	257.18	1328.9
	11/20/2015 11:30	11/20/2015	11:30	32	29.5	80	10.5	21.1		2080.3	237.98	1566.9
	11/20/2015 13:16	11/20/2015	13:16	32	29.5	80	10	20.1		2184.8	249.94	1816.9
	11/20/2015 15:25	11/20/2015	15:25	32	29	80	10	20.1		2594.0	296.75	2113.6
	11/20/2015 17:15	11/20/2015	17:15	32	28.5	73	11	22.3		2330.8	266.64	2380.3
	11/20/2015 17:16	11/20/2015	17:16		26					22.3	2.55	2382.8
SW-181 Event 4	11/24/2015 7:31	11/24/2015	7:31	27	27	51	0	0.0				2382.8
	11/24/2015 7:48	11/24/2015	7:48	26	25	58	6	11.5		97.7	11.18	2394.0
	11/24/2015 7:49	11/24/2015	7:49	32	30	58	12	24.7		18.1	2.07	2396.1
	11/24/2015 8:38	11/24/2015	8:38	32	30	68	13.5	27.5		1277.0	146.08	2542.1
	11/24/2015 10:16	11/24/2015	10:16	32	30	72	13.5	27.4		2686.3	307.31	2849.5
	11/24/2015 11:22	11/24/2015	11:22	32	29.5	72	14	28.4		1839.0	210.38	3059.8
	11/24/2015 11:23	11/24/2015	11:23		25.5					28.4	3.25	3063.1
SW-181 Event 5	11/30/2105 12:26	11/30/2105	12:26	30	30	88	0	0.0				3063.1
	11/30/2105 13:09	11/30/2105	13:09	30	28.5	86	6	11.7		252.3	28.86	3091.9
	11/30/2105 13:13	11/30/2105	13:13	34	31.5	86	10	20.4		64.3	7.36	3099.3
	11/30/2105 14:50	11/30/2105	14:50	34	31.5	84	10	20.5		1983.0	226.85	3326.2
	11/30/2105 16:09	11/30/2105	16:09	34	31.5	80	11	22.6		1700.8	194.57	3520.7
	11/30/2105 17:14	11/30/2105	17:14	34	31	74	12	24.8		1540.1	176.19	3696.9
	11/30/2105 17:15	11/30/2105	17:15		27.5					24.8	2.84	3699.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-181 Event 6	12/4/2015 8:07	12/4/2015	8:07	28	30	60	0	0.0			3699.7
	12/4/2015 8:24	12/4/2015	8:24	27	27	64	9	17.4	147.5	16.88	3716.6
	12/4/2015 8:25	12/4/2015	8:25	30	30	64	14	28.0	22.7	2.59	3719.2
	12/4/2015 9:42	12/4/2015	9:42	30	30	70	14	27.8	2147.0	245.62	3964.8
	12/4/2015 10:59	12/4/2015	10:59	29	28.5	72	13.5	26.5	2088.7	238.95	4203.8
	12/4/2015 12:19	12/4/2015	12:19	30	30	75	15	29.6	2243.8	256.69	4460.5
	12/4/2015 12:20	12/4/2015	12:20		25				29.6	3.39	4463.9
SW-181 Event 7	12/7/2015 8:11	12/7/2015	8:11	34	34	60	12	25.1			4463.9
	12/7/2015 8:45	12/7/2015	8:45	32	32	60	16	32.8	985.1	112.69	4576.6
	12/7/2015 9:40	12/7/2015	9:40	32	32	70	16	32.5	1795.6	205.42	4782.0
	12/7/2015 10:56	12/7/2015	10:56	32	32	70	16	32.5	2469.0	282.45	5064.4
	12/7/2015 12:01	12/7/2015	12:01	32	32	72	16	32.4	2109.6	241.34	5305.8
	12/7/2015 12:51	12/7/2015	12:51	32	32	74	16	32.4	1619.6	185.28	5491.0
	12/7/2015 14:13	12/7/2015	14:13	32	32	78	16	32.2	2648.4	302.98	5794.0
	12/7/2015 16:14	12/7/2015	16:14	31	31	78	18	35.9	4120.3	471.37	6265.4
	12/7/2015 17:00	12/7/2015	17:00		22				1650.0	188.76	6454.1
SW-181 Event 8	12/9/2015 7:51	12/9/2015	7:51	33	33	52	14	29.3			6454.1
	12/9/2015 8:10	12/9/2015	8:10	32	32	62	18	36.8	627.9	71.83	6526.0
	12/9/2015 9:30	12/9/2015	9:30	30	30	72	18	35.7	2900.5	331.82	6857.8
	12/9/2015 11:18	12/9/2015	11:18	30	30	78	18	35.5	3841.8	439.50	7297.3
	12/9/2015 12:45	12/9/2015	12:45	30	29	80	20	39.3	3254.0	372.25	7669.5
	12/9/2015 14:54	12/9/2015	14:54	30	29	78	20	39.4	5079.0	581.04	8250.6
	12/9/2015 16:19	12/9/2015	16:19	30	29	72	20	39.6	3359.6	384.34	8634.9
	12/9/2015 16:45	12/9/2015	16:45		21				1030.6	117.90	8752.8
SW-181 Event 9	12/11/2015 7:57	12/11/2015	7:57	33	33	52	19	39.7			8752.8
	12/11/2015 8:15	12/11/2015	8:15	31	31	66	20	40.3	720.2	82.39	8835.2
	12/11/2015 9:27	12/11/2015	9:27	29	29	78	16	31.2	2573.7	294.43	9129.6
	12/11/2015 11:04	12/11/2015	11:04	29	29	78	16	31.2	3023.4	345.87	9475.5
	12/11/2015 11:05	12/11/2015	11:05		21				31.2	3.57	9479.1
SW-181 Event 10	12/14/2015 7:58	12/14/2015	7:58	26	27	74	4	7.5			9479.1
	12/14/2015 8:39	12/14/2015	8:39	25	25	77	8.5	15.8	478.3	54.72	9533.8
	12/14/2015 8:40	12/14/2015	8:40	32	30	77	16	32.3	24.0	2.75	9536.6
	12/14/2015 10:27	12/14/2015	10:27	32	30.5	77	15	30.2	3344.6	382.63	9919.2
	12/14/2015 12:19	12/14/2015	12:19	32	30	79	13.5	27.2	3215.7	367.87	10287.1
	12/14/2015 13:55	12/14/2015	13:55	32	30	79	13	26.2	2560.3	292.89	10580.0
	12/14/2015 15:00	12/14/2015	15:00	32	30	79	14	28.2	1766.2	202.06	10782.0
	12/14/2015 15:53	12/14/2015	15:53	32	30	78	14	28.2	1494.2	170.94	10952.9
	12/14/2015 17:08	12/14/2015	17:08	32	30	77	15	30.2	2192.1	250.78	11203.7
	12/14/2015 17:09	12/14/2015	17:09		27				30.2	3.46	11207.2
SW-181 Event 11	12/16/2015 7:49	12/16/2015	7:49	26	27	70	0	0.0			11207.2
	12/16/2015 8:24	12/16/2015	8:24	25	25	71	5	9.3	163.5	18.70	11225.9
	12/16/2015 8:25	12/16/2015	8:25	32	31	71	14	28.4	18.9	2.16	11228.0
	12/16/2015 9:40	12/16/2015	9:40	32	30	74	16	32.4	2278.4	260.65	11488.7
	12/16/2015 11:28	12/16/2015	11:28	31	29	76	14.5	29.0	3310.8	378.75	11867.4
	12/16/2015 12:42	12/16/2015	12:42	31	29	78	14	27.9	2103.4	240.63	12108.1
	12/16/2015 14:47	12/16/2015	14:47	31	29	76	14	28.0	3490.6	399.33	12507.4
	12/16/2015 14:48	12/16/2015	14:48		25				28.0	3.20	12510.6
Total CO ₂ Mass (lbs):											12510.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-182 Event 1	10/28/2015 9:04	10/28/2015	9:04	12	10	78	0	0.0				0
	10/28/2015 9:10	10/28/2015	9:10	15	14	78	0	0.0	0.0	0.00	0.0	0.0
	10/28/2015 9:15	10/28/2015	9:15	19	18	78	0	0.0	0.0	0.00	0.0	0.0
	10/28/2015 9:19	10/28/2015	9:19	22	22	78	0	0.0	0.0	0.00	0.00	0.0
	10/28/2015 9:24	10/28/2015	9:24	25	24.5	78	0	0.0	0.0	0.00	0.00	0.0
	10/28/2015 9:30	10/28/2015	9:30	28	27.5	78	0	0.0	0.0	0.00	0.00	0.0
	10/28/2015 9:34	10/28/2015	9:34	31	30	78	<2	0.0	0.0	0.00	0.00	0.0
	10/28/2015 9:38	10/28/2015	9:38	35	34	78	6	12.5	25.0	2.85	2.9	2.9
	10/28/2015 9:42	10/28/2015	9:42		10				49.9	5.71	8.6	8.6
SW-182 Event 2	11/11/2015 11:18	11/11/2015	11:18	15.5	16	82	0	0.0				8.6
	11/11/2015 11:52	11/11/2015	11:52	16	16	86	0	0.0	0.0	0.00	8.6	8.6
	11/11/2015 11:53	11/11/2015	11:53	18	18.5	86	0	0.0	0.0	0.00	8.6	8.6
	11/11/2015 11:55	11/11/2015	11:55	20	20.5	86	0	0.0	0.0	0.00	8.6	8.6
	11/11/2015 12:04	11/11/2015	12:04	22	22	87	0	0.0	0.0	0.00	8.6	8.6
	11/11/2015 12:09	11/11/2015	12:09	24	24.5	87	0	0.0	0.0	0.00	8.6	8.6
	11/11/2015 12:26	11/11/2015	12:26	24	23	87	<2	0.0	0.0	0.00	8.6	8.6
	11/11/2015 12:40	11/11/2015	12:40	24	23	87	3	5.4	38.1	4.36	12.9	12.9
	11/11/2015 13:25	11/11/2015	13:25	23	23	90	4	7.1	283.5	32.43	45.4	45.4
	11/11/2015 14:48	11/11/2015	14:48	23	23	92	4	7.1	592.9	67.82	113.2	113.2
	11/11/2015 15:57	11/11/2015	15:57	23	23	88	4	7.2	493.3	56.44	169.6	169.6
	11/11/2015 17:03	11/11/2015	17:03	23	23	80	4	7.2	474.5	54.29	223.9	223.9
	11/11/2015 17:05	11/11/2015	17:05		18				14.4	1.65	225.6	225.6
SW-182 Event 3	11/17/2015 8:15	11/17/2015	8:15	23	22.5	77	0	0.0				225.6
	11/17/2015 9:05	11/17/2015	9:05	22.5	22.5	83	0	0.0	0.0	0.00	225.6	225.6
	11/17/2015 11:16	11/17/2015	11:16	22.5	22.5	88	0	0.0	0.0	0.00	225.6	225.6
	11/17/2015 12:52	11/17/2015	12:52	22.5	22.5	90	0	0.0	0.0	0.00	225.6	225.6
	11/17/2015 12:53	11/17/2015	12:53	24	24.5	90	0	0.0	0.0	0.00	225.6	225.6
	11/17/2015 14:11	11/17/2015	14:11	23.5	24	86	0	0.0	0.0	0.00	225.6	225.6
	11/17/2015 14:12	11/17/2015	14:12	25	25.5	86	3	5.5	2.8	0.32	225.9	225.9
	11/17/2015 15:39	11/17/2015	15:39	25	25	81	4	7.4	562.3	64.33	290.2	290.2
	11/17/2015 16:07	11/17/2015	16:07	25	25	77	5	9.3	233.6	26.73	316.9	316.9
11/17/2015 16:08	11/17/2015	16:08		19				9.3	1.06	318.0	318.0	
SW-182 Event 4	12/10/2015 8:07	12/10/2015	8:07	22.5	23.5	65	<2	0.0				318.0
	12/10/2015 8:32	12/10/2015	8:32	22	21.5	72	6	10.8	134.5	15.39	333.4	333.4
	12/10/2015 8:33	12/10/2015	8:33	24	24	72	7	12.9	11.8	1.35	334.7	334.7
	12/10/2015 9:30	12/10/2015	9:30	24.5	24.5	81	5.5	10.1	655.7	75.02	409.7	409.7
	12/10/2015 10:37	12/10/2015	10:37	24	24	83	6	10.9	705.2	80.67	490.4	490.4
	12/10/2015 11:40	12/10/2015	11:40	24	24	83	6.5	11.9	717.9	82.12	572.5	572.5
	12/10/2015 12:27	12/10/2015	12:27	23.5	24	83	7	12.7	576.4	65.94	638.5	638.5
	12/10/2015 13:25	12/10/2015	13:25	23.5	24	84	3	5.4	525.1	60.07	698.6	698.6
	12/10/2015 14:42	12/10/2015	14:42	23.5	24	84	<2	0.0	209.0	23.91	722.5	722.5
	12/10/2015 15:42	12/10/2015	15:42	23.5	23.5	83	<2	0.0	0.0	0.00	722.5	722.5
	12/10/2015 17:00	12/10/2015	17:00	25	25	71	<2	0.0	0.0	0.00	722.5	722.5
	12/10/2015 17:02	12/10/2015	17:02		19				0.0	0.00	722.5	722.5

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-182 Event 5	12/11/2015 7:52	12/11/2015	7:52	24	24	63	0	0.0				722.5	
	12/11/2015 8:18	12/11/2015	8:18	23	23.5	70	4	7.3		94.7	10.84	733.3	
	12/11/2015 9:18	12/11/2015	9:18	23	23	78	0	0.0		218.6	25.01	758.3	
	12/11/2015 9:19	12/11/2015	9:19	25	25	78	3	5.6		2.8	0.32	758.6	
	12/11/2015 10:18	12/11/2015	10:18	25	25	80	3	5.6		328.1	37.54	796.2	
	12/11/2015 11:03	12/11/2015	11:03	24.5	24.5	81	4.5	8.3		311.2	35.60	831.8	
	12/11/2015 11:04	12/11/2015	11:04		21					8.3	0.95	832.7	
SW-182 Event 6	12/16/2015 7:58	12/16/2015	7:58	27	28	70	0	0.0				832.7	
	12/16/2015 8:31	12/16/2015	8:31	26	26	71	6	11.4		187.3	21.43	854.1	
	12/16/2015 8:32	12/16/2015	8:32	34	31	71	16	33.2		22.3	2.55	856.7	
	12/16/2015 9:34	12/16/2015	9:34	29	26.5	74	19	37.2		2179.6	249.34	1106.0	
	12/16/2015 9:35	12/16/2015	9:35	25	24	74	14.5	27.0		32.1	3.67	1109.7	
	12/16/2015 11:24	12/16/2015	11:24	23.5	22.5	76	14.5	26.4		2912.9	333.23	1442.9	
	12/16/2015 12:39	12/16/2015	12:39	23.5	22.5	78	14.5	26.4		1980.9	226.62	1669.5	
	12/16/2015 14:44	12/16/2015	14:44	23	22	76	15.5	28.1		3403.8	389.39	2058.9	
	12/16/2015 16:01	12/16/2015	16:01	23.5	21	75	16	29.2		2205.0	252.26	2311.2	
	12/16/2015 17:18	12/16/2015	17:18	24	21	74	16	29.4		2256.9	258.19	2569.4	
	12/16/2015 17:19	12/16/2015	17:19		11					29.4	3.37	2572.8	
	SW-182 Event 7	12/18/2015 8:06	12/18/2015	8:06	25	24.5	71	0	0.0				2572.8
		12/18/2015 8:34	12/18/2015	8:34	23.5	24	69	0	0.0		0.0	0.00	2572.8
12/18/2015 8:35		12/18/2015	8:35	25.5	25.5	69	3	5.7		2.8	0.32	2573.1	
12/18/2015 9:37		12/18/2015	9:37	25	25	70	4	7.5		407.1	46.57	2619.6	
12/18/2015 10:29		12/18/2015	10:29	24	25	73	4	7.4		385.9	44.15	2663.8	
12/18/2015 11:33		12/18/2015	11:33	24	25	75	4	7.3		470.7	53.85	2717.6	
12/18/2015 12:40		12/18/2015	12:40	25	25	75	4	7.4		495.5	56.69	2774.3	
12/18/2015 13:27		12/18/2015	13:27	24	25	74	4	7.4		347.8	39.79	2814.1	
12/18/2015 14:41		12/18/2015	14:41	24	24.5	72	6	11.1		681.2	77.92	2892.0	
12/18/2015 14:42		12/18/2015	14:42		19					11.1	1.26	2893.3	
SW-182 Event 8		12/21/2015 7:37	12/21/2015	7:37	24	24	63	0	0.0				2893.3
	12/21/2015 8:06	12/21/2015	8:06	23.5	23.5	65	0	0.0		0.0	0.00	2893.3	
	12/21/2015 8:07	12/21/2015	8:07	26	26	65	0	0.0		0.0	0.00	2893.3	
	12/21/2015 9:27	12/21/2015	9:27	26	26	74	0	0.0		0.0	0.00	2893.3	
	12/21/2015 11:42	12/21/2015	11:42	26.5	26.5	81	<2	0.0		0.0	0.00	2893.3	
	12/21/2015 13:06	12/21/2015	13:06	25	26.5	85	3	5.5		232.3	26.57	2919.9	
	12/21/2015 14:13	12/21/2015	14:13	25	26	77	<2	0.0		185.3	21.19	2941.1	
	12/21/2015 15:13	12/21/2015	15:13	25	26	77	3	5.6		167.2	19.12	2960.2	
	12/21/2015 16:07	12/21/2015	16:07	25	26	76	<2	0.0		150.4	17.21	2977.4	
	12/21/2015 17:07	12/21/2015	17:07	26	26	74	<2	0.0		0.0	0.00	2977.4	
	12/22/2015 7:45	12/22/2015	7:45	25	25	74	4	7.5		3271.0	374.20	3351.6	
	12/22/2015 7:46	12/22/2015	7:46		23					7.5	0.85	3352.5	
	SW-182 Event 9	1/6/2016 7:50	1/6/2016	7:50	25	25.5	48	0	0.0				3352.5
1/6/2016 8:18		1/6/2016	8:18	25	25	48	0	0.0		0.0	0.00	3352.5	
1/6/2016 8:19		1/6/2016	8:19	28	28	48	0	0.0		0.0	0.00	3352.5	
1/6/2016 10:24		1/6/2016	10:24	28	28	60	<2	0.0		0.0	0.00	3352.5	
1/6/2016 11:54		1/6/2016	11:54	28	28	63	<2	0.0		0.0	0.00	3352.5	
1/6/2016 13:42		1/6/2016	13:42	28	28	63	<2	0.0		0.0	0.00	3352.5	
1/6/2016 17:05		1/6/2016	17:05	28	28	60	<2	0.0		0.0	0.00	3352.5	
1/7/2016 7:54		1/7/2016	7:54	25	25.5	56	<2	0.0		0.0	0.00	3352.5	
1/7/2016 7:56		1/7/2016	7:56		23					0.0	0.00	3352.5	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-182 Event 10	1/12/2016 7:52	1/12/2016	7:52	26	27	40	0	0.0			3352.5
	1/12/2016 8:20	1/12/2016	8:20	25	26	45	0	0.0	0.0	0.00	3352.5
	1/12/2016 8:21	1/12/2016	8:21	28	29	45	4	8.0	4.0	0.46	3352.9
	1/12/2016 9:59	1/12/2016	9:59	29	29	67	4	7.9	775.8	88.75	3441.7
	1/12/2016 11:22	1/12/2016	11:22	29	29	69	4	7.9	653.0	74.71	3516.4
	1/12/2016 12:33	1/12/2016	12:33	29	29	70	4.5	8.8	592.7	67.80	3584.2
	1/12/2016 14:46	1/12/2016	14:46	29	29	71	4.5	8.8	1174.4	134.35	3718.5
	1/12/2016 16:10	1/12/2016	16:10	29	29	70	4.5	8.8	741.7	84.85	3803.4
	1/12/2016 17:18	1/12/2016	17:18	28	28	63	5	9.8	632.5	72.36	3875.7
	1/13/2016 8:07	1/13/2016	8:07	28	27	42	7.5	15.0	10994.4	1257.76	5133.5
	1/13/2016 8:35	1/13/2016	8:35	28	27	58	7.5	14.7	415.7	47.55	5181.0
	1/13/2016 10:08	1/13/2016	10:08	28	27	64	7.5	14.6	1365.4	156.20	5337.2
	1/13/2016 11:40	1/13/2016	11:40	28	27	67	7.5	14.6	1344.7	153.83	5491.1
	1/13/2016 12:27	1/13/2016	12:27	28	27	67	7.5	14.6	685.9	78.47	5569.5
	1/13/2016 12:28	1/13/2016	12:28		24				14.6	1.67	5571.2
SW-182 Event 11	1/28/2016 7:18	1/28/2016	7:18	28	28	63	0	0.0			5571.2
	1/28/2016 7:30	1/28/2016	7:30	27	27	63	0	0.0	0.0	0.00	5571.2
	1/28/2016 7:31	1/28/2016	7:31	34	34	63	5	10.4	5.2	0.60	5571.8
	1/28/2016 9:38	1/28/2016	9:38	34	33	63	7	14.6	1591.4	182.06	5753.9
	1/28/2016 11:37	1/28/2016	11:37	33	32	65	8.5	17.5	1913.0	218.84	5972.7
	1/28/2016 14:00	1/28/2016	14:00	33	32	68	9.5	19.5	2650.3	303.19	6275.9
	1/28/2016 15:11	1/28/2016	15:11	33	32	64	10	20.6	1426.4	163.18	6439.1
	1/28/2016 17:07	1/28/2016	17:07	32	31.5	63	10.5	21.5	2442.5	279.42	6718.5
	1/28/2016 17:08	1/28/2016	17:08		27				21.5	2.46	6721.0
	SW-182 Event 12	2/3/2016 7:15	2/3/2016	7:15	30.5	30	74	0	0.0		
2/3/2016 7:35		2/3/2016	7:35	29.5	29	74	3	5.9	59.0	6.75	6727.7
2/3/2016 7:36		2/3/2016	7:36	35	34.5	74	7	14.6	10.3	1.17	6728.9
2/3/2016 9:33		2/3/2016	9:33	34.5	34	74	8.5	17.7	1887.5	215.93	6944.8
2/3/2016 11:10		2/3/2016	11:10	34	33.5	79	10	20.6	1853.3	212.02	7156.8
2/3/2016 12:36		2/3/2016	12:36	34	33	79	10	20.6	1768.2	202.28	7359.1
2/3/2016 14:25		2/3/2016	14:25	34	32.5	80	10	20.5	2240.0	256.26	7615.4
2/3/2016 15:22		2/3/2016	15:22	34	32.5	80	10	20.5	1170.8	133.94	7749.3
2/3/2016 16:16		2/3/2016	16:16	33.5	32	77	10.5	21.5	1135.6	129.91	7879.2
2/3/2016 16:18		2/3/2016	16:18		26.5				43.0	4.92	7884.2
SW-182 Event 13	2/9/2016 7:41	2/9/2016	7:41	32.5	33	42	0	0.0			7884.2
	2/9/2016 7:50	2/9/2016	7:50	31	31	44	4	8.2	37.1	4.24	7888.4
	2/9/2016 7:51	2/9/2016	7:51	33	33	44	6	12.6	10.4	1.19	7889.6
	2/9/2016 9:18	2/9/2016	9:18	33	33	53	6.5	13.6	1140.1	130.43	8020.0
	2/9/2016 11:27	2/9/2016	11:27	32.5	32.5	57	7	14.5	1808.8	206.93	8227.0
	2/9/2016 13:15	2/9/2016	13:15	32	31	60	8	16.4	1667.5	190.76	8417.7
	2/9/2016 13:17	2/9/2016	13:17		25				32.8	3.75	8421.5
Total CO ₂ Mass (lbs):											8421.5

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-183 Event 1	10/21/2015 13:45	10/21/2015	13:45	10	10	86	0	0.0			0
	10/21/2015 13:50	10/21/2015	13:50	15	15	86	0	0.0	0.0	0.00	0.0
	10/21/2015 13:52	10/21/2015	13:52	18	18	86	0	0.0	0.0	0.00	0.0
	10/21/2015 13:55	10/21/2015	13:55	20	20	86	0	0.0	0.0	0.00	0.0
	10/21/2015 13:57	10/21/2015	13:57	22	22	86	0	0.0	0.0	0.00	0.0
	10/21/2015 13:59	10/21/2015	13:59	24	24	86	0	0.0	0.0	0.00	0.0
	10/21/2015 14:04	10/21/2015	14:04	26	26	86	0	0.0	0.0	0.00	0.0
	10/21/2015 14:09	10/21/2015	14:09	28	28	86	0	0.0	0.0	0.00	0.0
	10/21/2015 14:13	10/21/2015	14:13	30	30	86	0	0.0	0.0	0.00	0.0
	10/21/2015 14:18	10/21/2015	14:18	32	32	86	0	0.0	0.0	0.00	0.0
	10/21/2015 14:22	10/21/2015	14:22	34	34	86	0	0.0	0.0	0.00	0.0
	10/21/2015 14:44	10/21/2015	14:44	34	33	86	0	0.0	0.0	0.00	0.0
	10/21/2015 14:46	10/21/2015	14:46	35	34	86	0	0.0	0.0	0.00	0.0
	10/21/2015 15:11	10/21/2015	15:11	34	33.5	86	0	0.0	0.0	0.00	0.0
	10/21/2015 15:13	10/21/2015	15:13	35	34	86	0	0.0	0.0	0.00	0.0
	10/21/2015 15:30	10/21/2015	15:30	35	34	86	0	0.0	0.0	0.00	0.0
	10/21/2015 15:55	10/21/2015	15:55	35	34	85	0	0.0	0.0	0.00	0.0
	10/21/2015 16:20	10/21/2015	16:20	35	34	85	0	0.0	0.0	0.00	0.0
10/21/2015 16:50	10/21/2015	16:50	35	34	83	0	0.0	0.0	0.00	0.0	
10/21/2015 17:08	10/21/2015	17:08	35	34	81	<2	0.0	0.0	0.00	0.0	
10/21/2015 17:10	10/21/2015	17:10		26				0.0	0.00	0.0	
SW-183 Event 2	10/28/2015 9:03	10/28/2015	9:03	30	29	79	0	0.0			0.0
	10/28/2015 9:13	10/28/2015	9:13	30	29	79	0	0.0	0.0	0.00	0.0
	10/28/2015 9:14	10/28/2015	9:14	35	34.5	79	0	0.0	0.0	0.00	0.0
	10/28/2015 9:58	10/28/2015	9:58	35	34	80	0	0.0	0.0	0.00	0.0
	10/28/2015 10:14	10/28/2015	10:14	35	34	82	0	0.0	0.0	0.00	0.0
	10/28/2015 10:15	10/28/2015	10:15		26				0.0	0.00	0.0
SW-183 Event 3	11/13/2015 7:18	11/13/2015	7:18	28	28	66	0	0.0			0.0
	11/13/2015 7:33	11/13/2015	7:33	28	27	66	0	0.0	0.0	0.00	0.0
	11/13/2015 7:34	11/13/2015	7:34	35	34	66	0	0.0	0.0	0.00	0.0
	11/13/2015 8:44	11/13/2015	8:44	34	33	75	0	0.0	0.0	0.00	0.0
	11/13/2015 8:45	11/13/2015	8:45	36	35	75	<2	0.0	0.0	0.00	0.0
	11/13/2015 9:56	11/13/2015	9:56	36	35	79	<2	0.0	0.0	0.00	0.0
	11/13/2015 10:42	11/13/2015	10:42	36	35	80	<2	0.0	0.0	0.00	0.0
	11/13/2015 11:03	11/13/2015	11:03	36	34.5	82	3	6.3	65.9	7.54	7.5
11/13/2015 11:04	11/13/2015	11:04		27				6.3	0.72	8.3	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-183 Event 4	11/16/2015 8:03	11/16/2015	8:03	27	26	70	0	0.0				8.3
	11/16/2015 8:51	11/16/2015	8:51	26	25	80	0	0.0		0.0	0.00	8.3
	11/16/2015 8:53	11/16/2015	8:53	35	34	80	0	0.0		0.0	0.00	8.3
	11/16/2015 10:18	11/16/2015	10:18	35	34	84	0	0.0		0.0	0.00	8.3
	11/16/2015 11:03	11/16/2015	11:03	35	34	86	0	0.0		0.0	0.00	8.3
	11/16/2015 12:27	11/16/2015	12:27	35	33	86	0	0.0		0.0	0.00	8.3
	11/16/2015 15:02	11/16/2015	15:02	35	33	82	<2	0.0		0.0	0.00	8.3
	11/16/2015 17:38	11/16/2015	17:38	35	32.5	73	3	6.3		488.9	55.93	64.2
	11/16/2015 17:40	11/16/2015	17:40	37	35	73	5	10.7		16.9	1.94	66.1
	11/17/2015 7:42	11/17/2015	7:42	37	34	63	8	17.2		11738.6	1342.89	1409.0
	11/17/2015 9:19	11/17/2015	9:19	37	33.5	83	9	19.0		1756.9	200.99	1610.0
	11/17/2015 9:22	11/17/2015	9:22	39	35.5	83	12	25.8		67.2	7.69	1617.7
	11/17/2015 11:20	11/17/2015	11:20	39	35.5	86	12	25.8		3043.4	348.16	1965.9
	11/17/2015 12:46	11/17/2015	12:46	39	35.5	86	12	25.8		2214.9	253.38	2219.3
	11/17/2015 14:07	11/17/2015	14:07	39	35.5	84	12	25.8		2088.1	238.88	2458.1
	11/17/2015 15:34	11/17/2015	15:34	39	35	82	12	25.9		2247.1	257.07	2715.2
11/17/2015 16:00	11/17/2015	16:00	39	35	78	12	26.0		673.5	77.05	2792.2	
11/17/2015 16:02	11/17/2015	16:02		27					51.9	5.94	2798.2	
SW-183 Event 5	11/19/2015 7:54	11/19/2015	7:54	28	26	78	8	15.4				2798.2
	11/19/2015 8:21	11/19/2015	8:21	28	26.5	78	8	15.4		415.9	47.58	2845.8
	11/19/2015 8:22	11/19/2015	8:22	34	31	78	12	24.7		20.0	2.29	2848.1
	11/19/2015 9:32	11/19/2015	9:32	35	32	78	10	20.8		1592.2	182.14	3030.2
	11/19/2015 11:05	11/19/2015	11:05	35	32	79	9.5	19.7		1884.6	215.60	3245.8
	11/19/2015 12:28	11/19/2015	12:28	35	32	80	9	18.7		1594.2	182.37	3428.2
	11/19/2015 13:20	11/19/2015	13:20	34	33	80	9	18.5		966.3	110.54	3538.7
	11/19/2015 15:42	11/19/2015	15:42	34	32	78	9	18.5		2627.7	300.60	3839.3
	11/19/2015 15:43	11/19/2015	15:43		28					18.5	2.12	3841.4
SW-183 Event 6	11/23/2015 7:57	11/23/2015	7:57	26	26	54	0	0.0				3841.4
	11/23/2015 8:33	11/23/2015	8:33	26	25.5	58	0	0.0		0.0	0.00	3841.4
	11/23/2015 8:34	11/23/2015	8:34	34	33.5	58	5.5	11.5		5.8	0.66	3842.1
	11/23/2015 9:55	11/23/2015	9:55	34	33	69	6	12.5		972.0	111.20	3953.3
	11/23/2015 12:07	11/23/2015	12:07	34	33	72	6	12.4		1641.9	187.83	4141.1
	11/23/2015 14:38	11/23/2015	14:38	34	33	74	6	12.4		1873.6	214.34	4355.5
	11/23/2015 15:33	11/23/2015	15:33	34	33	73	6	12.4		682.1	78.03	4433.5
	11/23/2015 16:59	11/23/2015	16:59	34	33	71	6	12.4		1068.1	122.20	4555.7
	11/23/2015 17:00	11/23/2015	17:00		28					12.4	1.42	4557.1
SW-183 Event 7	12/1/2015 7:54	12/1/2015	7:54	30	29.5	70	0	0.0				4557.1
	12/1/2015 8:05	12/1/2015	8:05	30	29	70	0	0.0		0.0	0.00	4557.1
	12/1/2015 8:06	12/1/2015	8:06	34	33	70	0	0.0		0.0	0.00	4557.1
	12/1/2015 9:42	12/1/2015	9:42	33	32.5	74	4	8.2		392.5	44.90	4602.0
	12/1/2015 11:18	12/1/2015	11:18	33	32.5	82	4	8.1		782.0	89.46	4691.5
	12/1/2015 12:34	12/1/2015	12:34	33	32.5	83	4	8.1		616.4	70.52	4762.0
	12/1/2015 14:14	12/1/2015	14:14	33	32.5	84	4	8.1		810.3	92.70	4854.7
	12/1/2015 15:45	12/1/2015	15:45	33	32.5	82	5	10.1		830.0	94.96	4949.7
	12/1/2015 17:22	12/1/2015	17:22	33	32.5	76	5.5	11.2		1036.2	118.55	5068.2
	12/2/2015 8:10	12/2/2015	8:10	31	30	71	9.5	19.1		13445.2	1538.13	6606.4
	12/2/2015 8:11	12/2/2015	8:11		25					19.1	2.18	6608.5

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-183 Event 8	12/3/2015 7:49	12/3/2015	7:49	29.5	29.5	62	14	27.9			6608.5
	12/3/2015 8:03	12/3/2015	8:03	30	30	66	12	23.9	362.5	41.47	6650.0
	12/3/2015 8:23	12/3/2015	8:23	30	30	68	10.5	20.9	448.2	51.27	6701.3
	12/3/2015 10:42	12/3/2015	10:42	30	30.5	70	9.5	18.9	2763.1	316.10	7017.4
	12/3/2015 12:00	12/3/2015	12:00	30	31	74	9	17.8	1430.1	163.60	7181.0
	12/3/2015 13:41	12/3/2015	13:41	30	30.5	75	8	15.8	1697.4	194.19	7375.2
	12/3/2015 13:42	12/3/2015	13:42	32	33	75	12.5	25.3	20.5	2.35	7377.5
	12/3/2015 14:54	12/3/2015	14:54	33	33	72	12	24.6	1794.1	205.25	7582.8
	12/3/2015 15:51	12/3/2015	15:51	33	33	73	12	24.6	1400.4	160.21	7743.0
	12/3/2015 17:04	12/3/2015	17:04	33.5	33.5	69	12	24.8	1800.9	206.02	7949.0
	12/3/2015 17:06	12/3/2015	17:06		26.5				49.6	5.67	7954.7
	SW-183 Event 9	12/8/2015 8:10	12/8/2015	8:10	35	36	60	0	0.0		
12/8/2015 8:33		12/8/2015	8:33	35	36	60	2	4.2	48.7	5.57	7960.2
12/8/2015 9:29		12/8/2015	9:29	35	36	76	5	10.4	410.2	46.93	8007.2
12/8/2015 10:30		12/8/2015	10:30	34	35	80	7	14.4	756.3	86.52	8093.7
12/8/2015 11:55		12/8/2015	11:55	34	35	80	8	16.4	1309.5	149.80	8243.5
12/8/2015 13:11		12/8/2015	13:11	34	35	82	10	20.5	1403.5	160.56	8404.0
12/8/2015 15:12		12/8/2015	15:12	34	35	78	10	20.6	2485.5	284.34	8688.4
12/8/2015 17:10		12/8/2015	17:10	34	35	70	10	20.7	2438.0	278.90	8967.3
12/8/2015 17:11		12/8/2015	17:11		26				20.7	2.37	8969.6
SW-183 Event 10		12/10/2015 7:52	12/10/2015	7:52	35	35	52	0	0.0		
	12/10/2015 8:12	12/10/2015	8:12	35	35	52	2	4.3	42.7	4.88	8974.5
	12/10/2015 9:42	12/10/2015	9:42	35	35	72	5	10.5	662.6	75.80	9050.3
	12/10/2015 10:47	12/10/2015	10:47	35	35	76	5	10.4	678.4	77.61	9127.9
	12/10/2015 11:41	12/10/2015	11:41	34	34	78	8	16.5	725.8	83.03	9211.0
	12/10/2015 13:27	12/10/2015	13:27	34	34	78	8	16.5	1745.2	199.65	9410.6
	12/10/2015 15:00	12/10/2015	15:00	33	33	78	10	20.4	1712.6	195.92	9606.5
	12/10/2015 17:02	12/10/2015	17:02	33	33	68	10	20.6	2496.7	285.62	9892.2
	12/11/2015 7:54	12/11/2015	7:54	32	32.5	52	16	33.1	23922.8	2736.77	12628.9
	12/11/2015 7:54	12/11/2015	7:54		26				0.0	0.00	12628.9
SW-183 Event 11	12/15/2015 7:55	12/15/2015	7:55	26	27	69	0	0.0			12628.9
	12/15/2015 8:24	12/15/2015	8:24	25	27	70	0	0.0	0.0	0.00	12628.9
	12/15/2015 8:25	12/15/2015	8:25	32	34	70	0	0.0	0.0	0.00	12628.9
	12/15/2015 10:07	12/15/2015	10:07	33	33	80	5	10.2	518.3	59.29	12688.2
	12/15/2015 11:49	12/15/2015	11:49	33	33	82	6	12.2	1139.1	130.31	12818.5
	12/15/2015 13:42	12/15/2015	13:42	33	33	82	6.5	13.2	1432.8	163.91	12982.4
	12/15/2015 15:07	12/15/2015	15:07	33	33	83	7	14.2	1163.4	133.09	13115.5
	12/15/2015 16:05	12/15/2015	16:05	31	33	81	8	15.9	872.4	99.80	13215.3
	12/15/2015 17:13	12/15/2015	17:13	31	33	75	8	16.0	1084.1	124.02	13339.4
	12/16/2015 7:45	12/16/2015	7:45	31	32	70	11.5	23.1	17040.0	1949.38	15288.7
	12/16/2015 7:46	12/16/2015	7:46		26				23.1	2.64	15291.4
SW-183 Event 12	12/17/2015 7:41	12/17/2015	7:41	25	24	75	11	20.5			15291.4
	12/17/2015 8:15	12/17/2015	8:15	25.5	25	77	8	15.0	602.2	68.89	15360.3
	12/17/2015 8:16	12/17/2015	8:16	34	32	77	16	33.0	24.0	2.74	15363.0
	12/17/2015 9:39	12/17/2015	9:39	35	34	80	14	29.1	2573.7	294.43	15657.4
	12/17/2015 10:48	12/17/2015	10:48	35	34	81	14	29.0	2003.9	229.24	15886.7
	12/17/2015 11:46	12/17/2015	11:46	35	33.5	80	14	29.1	1684.4	192.70	16079.4
	12/17/2015 12:47	12/17/2015	12:47	34	33	81	13.5	27.7	1731.1	198.04	16277.4
	12/17/2015 12:48	12/17/2015	12:48		27				27.7	3.17	16280.6
Total CO ₂ Mass (lbs):											16280.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-184 Event 1	10/26/2015 10:33	10/26/2015	10:33	22	25	78	0	0.0				0
	10/26/2015 10:41	10/26/2015	10:41	24	27	78	0	0.0	0.0	0.00	0.0	
	10/26/2015 10:54	10/26/2015	10:54	26	32	79	0	0.0	0.0	0.00	0.0	
	10/26/2015 11:03	10/26/2015	11:03	28	34	79	<2	0.0	0.0	0.00	0.0	
	10/26/2015 11:15	10/26/2015	11:15	30	35	82	6	11.8	70.7	8.08	8.1	
	10/26/2015 11:32	10/26/2015	11:32	30	34	84	6	11.8	200.0	22.88	31.0	
	10/26/2015 11:33	10/26/2015	11:33	32	35.5	84	8	16.0	13.9	1.59	32.6	
	10/26/2015 13:08	10/26/2015	13:08	32	35	83	10	20.1	1713.6	196.04	228.6	
	10/26/2015 14:13	10/26/2015	14:13	32	34	82	11	22.1	1369.2	156.63	385.2	
	10/26/2015 15:51	10/26/2015	15:51	32	34	81	12	24.1	2263.0	258.89	644.1	
10/26/2015 16:39	10/26/2015	16:39	32	34	80	12	24.1	1157.7	132.44	776.6		
10/26/2015 16:40	10/26/2015	16:40		23				24.1	2.76	779.3		
SW-184 Event 2	11/19/2015 7:48	11/19/2015	7:48	28	29	77	0	0.0				779.3
	11/19/2015 8:13	11/19/2015	8:13	27	27.5	77	<2	0.0	0.0	0.00	779.3	
	11/19/2015 8:14	11/19/2015	8:14	34	34	77	7.5	15.5	7.7	0.88	780.2	
	11/19/2015 9:33	11/19/2015	9:33	33	32.5	78	10.5	21.4	1454.9	166.44	946.7	
	11/19/2015 10:59	11/19/2015	10:59	33	32.5	78	11	22.4	1882.7	215.39	1162.0	
	11/19/2015 12:33	11/19/2015	12:33	32.5	32	80	12	24.3	2193.1	250.89	1412.9	
	11/19/2015 13:24	11/19/2015	13:24	32.5	31.5	80	12.5	25.3	1263.1	144.50	1557.4	
	11/19/2015 15:53	11/19/2015	15:53	33.5	31	77	13	26.6	3867.5	442.44	1999.9	
11/19/2015 15:54	11/19/2015	15:54		23.5				26.6	3.05	2002.9		
SW-184 Event 3	11/21/2015 12:36	11/21/2015	12:36	26	28	81	0	0.0				2002.9
	11/21/2015 12:53	11/21/2015	12:53	26	26	79	3	5.6	47.9	5.48	2008.4	
	11/21/2015 12:54	11/21/2015	12:54	33	33	79	9	18.3	12.0	1.37	2009.8	
	11/21/2015 14:37	11/21/2015	14:37	32	31	76	12	24.2	2190.5	250.59	2260.4	
	11/21/2015 15:48	11/21/2015	15:48	31.5	30	75	12	24.1	1716.0	196.31	2456.7	
	11/21/2015 17:25	11/21/2015	17:25	33	30.5	74	13	26.6	2458.5	281.26	2737.9	
11/21/2015 17:26	11/21/2015	17:26		20.5				26.6	3.04	2741.0		
SW-184 Event 4	12/4/2015 7:57	12/4/2015	7:57	33	34	59	0	0.0				2741.0
	12/4/2015 8:14	12/4/2015	8:14	30	30	63	10	20.0	170.0	19.44	2760.4	
	12/4/2015 8:15	12/4/2015	8:15	33	32.5	63	12	24.8	22.4	2.56	2763.0	
	12/4/2015 9:35	12/4/2015	9:35	32	31	70	12.5	25.4	2007.2	229.62	2992.6	
	12/4/2015 10:53	12/4/2015	10:53	31	30	72	13	26.1	2006.0	229.49	3222.1	
	12/4/2015 12:25	12/4/2015	12:25	33.5	32	72	13	26.8	2430.0	277.99	3500.1	
	12/4/2015 12:26	12/4/2015	12:26		25				26.8	3.06	3503.1	
SW-184 Event 5	12/15/2015 8:06	12/15/2015	8:06	26	26	71	0	0.0				3503.1
	12/15/2015 8:31	12/15/2015	8:31	27	26	72	0	0.0	0.0	0.00	3503.1	
	12/15/2015 8:32	12/15/2015	8:32	34	35.5	72	7	14.5	7.2	0.83	3504.0	
	12/15/2015 9:59	12/15/2015	9:59	34.5	35	80	7	14.5	1259.1	144.04	3648.0	
	12/15/2015 11:42	12/15/2015	11:42	34	35.5	83	8	16.4	1588.2	181.69	3829.7	
	12/15/2015 13:37	12/15/2015	13:37	34	35	84	8.5	17.4	1942.3	222.20	4051.9	
	12/15/2015 15:01	12/15/2015	15:01	34	35	83	9	18.4	1504.7	172.14	4224.0	
	12/15/2015 16:11	12/15/2015	16:11	34	33	80	10	20.5	1364.1	156.05	4380.1	
	12/15/2015 17:21	12/15/2015	17:21	34	33	73	10	20.7	1442.7	165.05	4545.1	
	12/16/2015 7:54	12/16/2015	7:54	34	31.5	70	13	27.0	20796.5	2379.12	6924.2	
	12/16/2015 7:55	12/16/2015	7:55		24.5				27.0	3.08	6927.3	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-184 Event 6	12/19/2015 11:02	12/19/2015	11:02	28	28	69	0	0.0				6927.3
	12/19/2015 11:33	12/19/2015	11:33	27	27	70	0	0.0	0.0	0.00		6927.3
	12/19/2015 11:34	12/19/2015	11:34	33	34	70	3	6.2	3.1	0.35		6927.7
	12/19/2015 12:57	12/19/2015	12:57	34	34.5	71	3	6.2	513.5	58.74		6986.4
	12/19/2015 13:42	12/19/2015	13:42	34	34	72	3	6.2	279.6	31.99		7018.4
	12/19/2015 14:50	12/19/2015	14:50	33.5	33.5	73	3.5	7.2	456.0	52.16		7070.6
	12/19/2015 15:47	12/19/2015	15:47	33	33.5	70	3	6.2	380.7	43.55		7114.1
	12/19/2015 17:16	12/19/2015	17:16	33	33.5	64	4	8.3	641.5	73.39		7187.5
	12/19/2015 17:17	12/19/2015	17:17		27				8.3	0.94		7188.5
SW-184 Event 7	12/22/2015 7:48	12/22/2015	7:48	29	29	74	0	0.0				7188.5
	12/22/2015 8:12	12/22/2015	8:12	28	29	74	0	0.0	0.0	0.00		7188.5
	12/22/2015 8:13	12/22/2015	8:13	32.5	33.5	74	<2	0.0	0.0	0.00		7188.5
	12/22/2015 10:20	12/22/2015	10:20	32	33.5	76	<2	0.0	0.0	0.00		7188.5
	12/22/2015 11:06	12/22/2015	11:06	32.5	33.5	77	<2	0.0	0.0	0.00		7188.5
	12/22/2015 11:07	12/22/2015	11:07		25				0.0	0.00		7188.5
SW-184 Event 8	1/5/2016 7:35	1/5/2016	7:35	27	27.5	46	0	0.0				7188.5
	1/5/2016 8:03	1/5/2016	8:03	26	26.5	48	0	0.0	0.0	0.00		7188.5
	1/5/2016 8:04	1/5/2016	8:04	34	35	48	<2	0.0	0.0	0.00		7188.5
	1/5/2016 9:37	1/5/2016	9:37	35	35.5	58	0	0.0	0.0	0.00		7188.5
	1/5/2016 11:24	1/5/2016	11:24	35	35.5	62	0	0.0	0.0	0.00		7188.5
	1/5/2016 12:57	1/5/2016	12:57	34	34.5	63	0	0.0	0.0	0.00		7188.5
	1/5/2016 14:16	1/5/2016	14:16	34	34	58	<2	0.0	0.0	0.00		7188.5
	1/5/2016 15:41	1/5/2016	15:41	34	34	56	<2	0.0	0.0	0.00		7188.5
	1/5/2016 17:04	1/5/2016	17:04	34	34	55	<2	0.0	0.0	0.00		7188.5
	1/5/2016 17:05	1/5/2016	17:05		27				0.0	0.00		7188.5
SW-184 Event 9	1/25/2016 7:49	1/25/2016	7:49	29	29	42	0	0.0				7188.5
	1/25/2016 8:16	1/25/2016	8:16	28	28	44	0	0.0	0.0	0.00		7188.5
	1/25/2016 8:18	1/25/2016	8:18	36	36	44	<2	0.0	0.0	0.00		7188.5
	1/25/2016 9:27	1/25/2016	9:27	36	36	64	3	6.4	220.4	25.21		7213.7
	1/25/2016 11:05	1/25/2016	11:05	35	35	71	4	8.4	723.4	82.76		7296.4
	1/25/2016 12:22	1/25/2016	12:22	35.5	35.5	73	3	6.3	565.0	64.63		7361.1
	1/25/2016 12:23	1/25/2016	12:23		27				6.3	0.72		7361.8
SW-184 Event 10	2/4/2016 7:23	2/4/2016	7:23	30	28.5	73	0	0.0				7361.8
	2/4/2016 7:37	2/4/2016	7:37	28.5	26	73	7	13.6	95.4	10.91		7372.7
	2/4/2016 7:39	2/4/2016	7:39	38	35.5	73	12	25.8	39.5	4.51		7377.2
	2/4/2016 11:07	2/4/2016	11:07	35.5	32.2	67	15	31.7	5982.1	684.35		8061.6
	2/4/2016 11:08	2/4/2016	11:08	40	36	67	17	37.5	34.6	3.96		8065.5
	2/4/2016 14:14	2/4/2016	14:14	39.5	35.5	65	19	41.8	7378.1	844.05		8909.6
	2/4/2016 15:55	2/4/2016	15:55	39	35	63	19.5	42.8	4273.3	488.86		9398.4
	2/4/2016 17:02	2/4/2016	17:02	39	34	60	19.5	42.9	2872.0	328.56		9727.0
	2/4/2016 17:04	2/4/2016	17:04		23				85.9	9.82		9736.8
	Total CO ₂ Mass (lbs):											

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-185 Event 1	10/27/2015 12:50	10/27/2015	12:50	14	14	75	0	0.0				0	
	10/27/2015 12:52	10/27/2015	12:52	18	17.5	75	0	0.0	0.0	0.00	0.0	0.0	
	10/27/2015 12:55	10/27/2015	12:55	20	19.5	75	0	0.0	0.0	0.00	0.0	0.0	
	10/27/2015 13:01	10/27/2015	13:01	22	21	75	0	0.0	0.0	0.00	0.0	0.0	
	10/27/2015 13:05	10/27/2015	13:05	24	23.5	75	0	0.0	0.0	0.00	0.0	0.0	
	10/27/2015 13:11	10/27/2015	13:11	26	25.5	75	0	0.0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:18	10/27/2015	13:18	28	27.5	75	0	0.0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:21	10/27/2015	13:21	30	29.5	75	0	0.0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:23	10/27/2015	13:23	32	31.5	75	0	0.0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:25	10/27/2015	13:25	34	33.5	75	0	0.0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:52	10/27/2015	13:52	33	33	76	<2	0.0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 14:42	10/27/2015	14:42	33	33	78	3	6.1	152.7	17.47	17.5	17.5	
	10/27/2015 15:27	10/27/2015	15:27	33	33	79	4	8.1	320.6	36.67	54.1	54.1	
	10/27/2015 16:10	10/27/2015	16:10	33	33	79	4	8.1	349.9	40.03	94.2	94.2	
10/27/2015 17:18	10/27/2015	17:18	33	32	78	4.5	9.2	588.3	67.30	161.5	161.5		
10/27/2015 17:19	10/27/2015	17:19		25				9.2	1.05	162.5	162.5		
SW-185 Event 2	11/18/2015 8:17	11/18/2015	8:17	27	28.5	80	0	0.0				162.5	
	11/18/2015 9:25	11/18/2015	9:25	26	26	80	5	9.4	318.8	36.48	199.0	199.0	
	11/18/2015 9:26	11/18/2015	9:26	32	32	80	10	20.1	14.7	1.69	200.7	200.7	
	11/18/2015 10:57	11/18/2015	10:57	32	32	81	10	20.1	1829.0	209.24	409.9	409.9	
	11/18/2015 12:07	11/18/2015	12:07	32	32	83	10	20.1	1404.9	160.72	570.7	570.7	
	11/18/2015 13:16	11/18/2015	13:16	32	32	80	10	20.1	1385.5	158.50	729.2	729.2	
	11/18/2015 15:13	11/18/2015	15:13	32	32	78	10	20.1	2355.0	269.41	998.6	998.6	
	11/18/2015 16:44	11/18/2015	16:44	32	32	78	10	20.1	1833.4	209.74	1208.3	1208.3	
	11/18/2015 16:45	11/18/2015	16:45		24				20.1	2.30	1210.6	1210.6	
SW-185 Event 3	11/20/2015 7:59	11/20/2015	7:59	27	28	68	0	0.0				1210.6	
	11/20/2015 8:29	11/20/2015	8:29	26	26	74	5.5	10.4	155.6	17.80	1228.4	1228.4	
	11/20/2015 8:30	11/20/2015	8:30	32	31	74	11.5	23.3	16.8	1.92	1230.3	1230.3	
	11/20/2015 9:51	11/20/2015	9:51	32	31.5	78	11	22.2	1839.5	210.44	1440.8	1440.8	
	11/20/2015 11:25	11/20/2015	11:25	32	31	82	10.5	21.1	2032.1	232.47	1673.2	1673.2	
	11/20/2015 13:11	11/20/2015	13:11	31.5	31	81	10.5	21.0	2228.8	254.97	1928.2	1928.2	
	11/20/2015 15:12	11/20/2015	15:12	31.5	31	80	10	20.0	2479.2	283.62	2211.8	2211.8	
	11/20/2015 15:16	11/20/2015	15:16		25				80.0	9.15	2221.0	2221.0	
SW-185 Event 4	12/7/2015 8:14	12/7/2015	8:14	27.5	27.5	62	0	0.0				2221.0	
	12/7/2015 8:47	12/7/2015	8:47	25.5	26	64	<2	0.0	0.0	0.00	2221.0	2221.0	
	12/7/2015 8:49	12/7/2015	8:49	33	33	64	10	20.6	20.6	2.36	2223.4	2223.4	
	12/7/2015 10:00	12/7/2015	10:00	33.5	33	68	10.5	21.7	1503.5	172.00	2395.4	2395.4	
	12/7/2015 11:19	12/7/2015	11:19	33	33	72	10.5	21.5	1707.0	195.28	2590.6	2590.6	
	12/7/2015 12:53	12/7/2015	12:53	33	33	76	10.5	21.4	2017.8	230.84	2821.5	2821.5	
	12/7/2015 14:42	12/7/2015	14:42	33.5	33	77	10.5	21.5	2340.3	267.73	3089.2	3089.2	
	12/7/2015 16:16	12/7/2015	16:16	33	33	75	10.5	21.4	2019.2	231.00	3320.2	3320.2	
	12/7/2015 17:19	12/7/2015	17:19	33	33	70	10.5	21.5	1354.3	154.94	3475.1	3475.1	
	12/7/2015 17:20	12/7/2015	17:20		28				21.5	2.47	3477.6	3477.6	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-185 Event 5	12/14/2015 8:03	12/14/2015	8:03	27	28	74	0	0.0				3477.6	
	12/14/2015 8:36	12/14/2015	8:36	27	26	79	3	5.7	94.1	10.76	3488.4		
	12/14/2015 8:42	12/14/2015	8:42	34	34	79	9	18.5	72.6	8.31	3496.7		
	12/14/2015 10:24	12/14/2015	10:24	34	33.5	79	10.5	21.6	2044.8	233.92	3730.6		
	12/14/2015 12:12	12/14/2015	12:12	33	33.5	80	10	20.3	2263.4	258.93	3989.5		
	12/14/2015 13:48	12/14/2015	13:48	33	33.5	81	10	20.3	1950.3	223.12	4212.6		
	12/14/2015 15:04	12/14/2015	15:04	34	33.5	81	10	20.5	1551.4	177.49	4390.1		
	12/14/2015 15:57	12/14/2015	15:57	34	33.5	80	10	20.5	1088.1	124.48	4514.6		
	12/14/2015 17:15	12/14/2015	17:15	34	34	78	10	20.6	1603.7	183.47	4698.1		
	12/15/2015 8:02	12/15/2015	8:02	34	30	71	16	33.2	23830.9	2726.25	7424.3		
	12/15/2015 8:03	12/15/2015	8:03		26				33.2	3.79	7428.1		
	SW-185 Event 6	12/18/2015 8:08	12/18/2015	8:08	28	26	71	0	0.0				7428.1
12/18/2015 8:36		12/18/2015	8:36	25	24	69	5	9.4	131.0	14.99	7443.1		
12/18/2015 8:37		12/18/2015	8:37	31	27.5	69	13	26.1	17.7	2.03	7445.1		
12/18/2015 9:37		12/18/2015	9:37	32	28	70	16	32.5	1758.6	201.18	7646.3		
12/18/2015 10:28		12/18/2015	10:28	32	28	73	16	32.4	1654.4	189.26	7835.6		
12/18/2015 11:32		12/18/2015	11:32	32	28	75	15	30.3	2006.4	229.53	8065.1		
12/18/2015 12:42		12/18/2015	12:42	31.5	28	75	14	28.1	2045.5	234.00	8299.1		
12/18/2015 13:26		12/18/2015	13:26	32	28	74	14	28.3	1241.9	142.07	8441.2		
12/18/2015 14:38		12/18/2015	14:38	33	29	72	15	30.7	2125.5	243.15	8684.4		
12/18/2015 14:39		12/18/2015	14:39		24				30.7	3.51	8687.9		
SW-185 Event 7		1/12/2016 7:50	1/12/2016	7:50	28	29	40	0	0.0				8687.9
		1/12/2016 8:18	1/12/2016	8:18	28	25	45	4.5	9.0	125.3	14.34	8702.2	
	1/12/2016 8:19	1/12/2016	8:19	33	31	45	13	27.4	18.2	2.08	8704.3		
	1/12/2016 9:58	1/12/2016	9:58	30.5	29	67	12	24.0	2544.1	291.04	8995.3		
	1/12/2016 11:19	1/12/2016	11:19	31	29	69	11.5	23.1	1909.7	218.47	9213.8		
	1/12/2016 12:33	1/12/2016	12:33	31	29	70	11.5	23.1	1709.8	195.61	9409.4		
	1/12/2016 14:45	1/12/2016	14:45	31	28.5	71	11	22.1	2980.8	341.00	9750.4		
	1/12/2016 16:09	1/12/2016	16:09	30.5	28	70	11	22.0	1849.5	211.59	9962.0		
	1/12/2016 17:14	1/12/2016	17:14	30.5	27.5	63	12	24.1	1498.2	171.39	10133.4		
	1/12/2016 17:15	1/12/2016	17:15		23				24.1	2.76	10136.1		
SW-185 Event 8	1/14/2016 7:46	1/14/2016	7:46	25	25	44	5	9.6				10136.1	
	1/14/2016 8:10	1/14/2016	8:10	25	23	48	7	13.4	275.7	31.54	10167.7		
	1/14/2016 8:11	1/14/2016	8:11	34	30.5	48	14	29.7	21.5	2.46	10170.1		
	1/14/2016 9:25	1/14/2016	9:25	34	30	60	16.5	34.6	2377.2	271.95	10442.1		
	1/14/2016 11:32	1/14/2016	11:32	34	30	70	16.5	34.2	4367.9	499.69	10941.8		
	1/14/2016 13:14	1/14/2016	13:14	34	30.5	68	16	33.3	3441.2	393.67	11335.5		
	1/14/2016 14:35	1/14/2016	14:35	34	30.5	66	16	33.3	2696.0	308.42	11643.9		
	1/14/2016 16:13	1/14/2016	16:13	33.5	30	63	16.5	34.3	3312.2	378.92	12022.8		
	1/14/2016 16:59	1/14/2016	16:59	33.5	30.5	62	16.5	34.3	1577.7	180.48	12203.3		
	1/14/2016 17:00	1/14/2016	17:00		20.5				34.3	3.93	12207.2		
SW-185 Event 9	1/18/2016 8:11	1/18/2016	8:11	28.5	26	46	0	0.0				12207.2	
	1/18/2016 8:50	1/18/2016	8:50	27	25	55	<2	0.0	0.0	0.00	12207.2		
	1/18/2016 8:51	1/18/2016	8:51	34	32	55	9	18.9	9.5	1.08	12208.3		
	1/18/2016 10:29	1/18/2016	10:29	33.5	30.5	62	12.5	26.0	2202.2	251.93	12460.2		
	1/18/2016 11:52	1/18/2016	11:52	33.5	30.5	65	12.5	25.9	2154.4	246.46	12706.7		
	1/18/2016 13:43	1/18/2016	13:43	33.5	30.5	68	12.5	25.8	2872.7	328.63	13035.3		
	1/18/2016 15:40	1/18/2016	15:40	33.5	30.5	68	12.5	25.8	3023.5	345.88	13381.2		
	1/18/2016 17:09	1/18/2016	17:09	33.5	30.5	60	13	27.1	2355.4	269.46	13650.7		
	1/18/2016 17:11	1/18/2016	17:11		25				54.2	6.20	13656.9		

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-185 Event 10	2/16/2016 7:18	2/16/2016	7:18	30.5	30.5	63	0	0.0				13656.9
	2/16/2016 7:47	2/16/2016	7:47	29.5	29.5	63	0	0.0		0.0	0.00	13656.9
	2/16/2016 7:50	2/16/2016	7:50	36	35.5	63	6	12.8		19.2	2.19	13659.0
	2/16/2016 9:19	2/16/2016	9:19	36	35.5	70	7	14.8		1228.6	140.55	13799.6
	2/16/2016 11:07	2/16/2016	11:07	36	35.5	73	8	16.9		1712.1	195.86	13995.5
	2/16/2016 12:34	2/16/2016	12:34	36	35.5	76	8	16.8		1466.9	167.82	14163.3
	2/16/2016 15:15	2/16/2016	15:15	35.5	35	77	8	16.7		2702.6	309.18	14472.5
	2/16/2016 16:14	2/16/2016	16:14	35.5	35	76	8	16.8		987.9	113.02	14585.5
	2/16/2016 17:11	2/16/2016	17:11	35.5	34	74	8.5	17.8		985.7	112.76	14698.2
	2/16/2016 17:12	2/16/2016	17:12		28					17.8	2.04	14700.3
SW-185 Event 11	2/24/2016 7:38	2/24/2016	7:38	31	33	72	0	0.0				14700.3
	2/24/2016 7:49	2/24/2016	7:49	30.5	32.5	72	0	0.0		0.0	0.00	14700.3
	2/24/2016 7:50	2/24/2016	7:50	32	34	72	<2	0.0		0.0	0.00	14700.3
	2/24/2016 8:56	2/24/2016	8:56	31	33	74	4	8.0		264.1	30.21	14730.5
	2/24/2016 8:57	2/24/2016	8:57	32	33.5	74	5	10.1		9.1	1.04	14731.5
	2/24/2016 9:53	2/24/2016	9:53	32	33.5	80	5	10.1		564.7	64.60	14796.1
	2/24/2016 11:27	2/24/2016	11:27	32.5	33.5	80	5	10.1		947.7	108.41	14904.5
	2/24/2016 12:39	2/24/2016	12:39	32.5	33.5	83	5	10.1		726.8	83.14	14987.7
	2/24/2016 13:55	2/24/2016	13:55	32.5	33	86	5.5	11.1		803.2	91.88	15079.6
	2/24/2016 15:15	2/24/2016	15:15	32.5	33	84	5.5	11.1		885.3	101.28	15180.8
	2/24/2016 15:59	2/24/2016	15:59	32.5	33	83	5.5	11.1		487.6	55.78	15236.6
	2/24/2016 16:00	2/24/2016	16:00		27					11.1	1.27	15237.9
	SW-185 Event 12	2/25/2016 11:31	2/25/2016	11:31	32	33	69	0	0.0			
2/25/2016 11:34		2/25/2016	11:34	35	36	69	0	0.0		0.0	0.00	15237.9
2/25/2016 12:48		2/25/2016	12:48	34	35	72	6	12.4		459.6	52.57	15290.5
2/25/2016 14:09		2/25/2016	14:09	33	34	72	7	14.3		1083.7	123.98	15414.4
2/25/2016 15:04		2/25/2016	15:04	33	34	73	7.5	15.3		816.4	93.39	15507.8
2/25/2016 16:20		2/25/2016	16:20	32.5	33	72	8	16.3		1202.6	137.58	15645.4
2/25/2016 17:00		2/25/2016	17:00	32.5	33	70	8	16.3		652.6	74.66	15720.1
2/25/2016 17:01		2/25/2016	17:01		26					16.3	1.87	15721.9
SW-185 Event 13	2/29/2016 7:54	2/29/2016	7:54	34	35	63	6	12.5				15721.9
	2/29/2016 8:40	2/29/2016	8:40	34	33	66	15	31.2		1006.6	115.16	15837.1
	2/29/2016 8:41	2/29/2016	8:41	36	35.5	66	18	38.3		34.7	3.97	15841.1
	2/29/2016 10:27	2/29/2016	10:27	37.5	36.5	76	20	42.7		4291.7	490.97	16332.0
	2/29/2016 11:14	2/29/2016	11:14	37.5	36.5	77	20	42.7		2006.9	229.59	16561.6
	2/29/2016 11:15	2/29/2016	11:15		29.5					42.7	4.88	16566.5
Total CO ₂ Mass (lbs):											16566.5	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-186 Event 1	10/23/2015 8:33	10/23/2015	8:33	10	13	77	0	0.0			0
	10/23/2015 8:40	10/23/2015	8:40	15	17	77	0	0.0	0.0	0.00	0.0
	10/23/2015 9:10	10/23/2015	9:10	15	17	84	0	0.0	0.0	0.00	0.0
	10/23/2015 9:11	10/23/2015	9:11	22	24	84	0	0.0	0.0	0.00	0.0
	10/23/2015 9:38	10/23/2015	9:38	26	27	86	6	11.2	151.1	17.28	17.3
	10/23/2015 9:42	10/23/2015	9:42	30	30	86	11	21.5	65.4	7.48	24.8
	10/23/2015 10:23	10/23/2015	10:23	30	30	80	11.5	22.6	904.6	103.49	128.3
	10/23/2015 10:30	10/23/2015	10:30	34	32.5	80	16	32.9	194.2	22.22	150.5
	10/23/2015 11:23	10/23/2015	11:23	34	32	81	16	32.8	1741.0	199.17	349.6
	10/23/2015 11:25	10/23/2015	11:25	38	34	81	18	38.4	71.3	8.15	357.8
	10/23/2015 11:56	10/23/2015	11:56	38	34	82	18	38.4	1191.3	136.29	494.1
	10/23/2015 12:35	10/23/2015	12:35	38	34	82	18	38.4	1498.0	171.38	665.5
	10/23/2015 12:56	10/23/2015	12:56	38	34	82	18	38.4	806.6	92.28	757.7
	10/23/2015 12:57	10/23/2015	12:57		27				38.4	4.39	762.1
SW-186 Event 2	11/23/2015 8:05	11/23/2015	8:05	26.5	26.5	50	0	0.0			762.1
	11/23/2015 8:42	11/23/2015	8:42	26	26	57	0	0.0	0.0	0.00	762.1
	11/23/2015 8:43	11/23/2015	8:43	35	35	57	0	0.0	0.0	0.00	762.1
	11/23/2015 9:49	11/23/2015	9:49	34	34.5	66	0	0.0	0.0	0.00	762.1
	11/23/2015 12:01	11/23/2015	12:01	34.5	35.5	73	0	0.0	0.0	0.00	762.1
	11/23/2015 14:32	11/23/2015	14:32	34	35	74	0	0.0	0.0	0.00	762.1
	11/23/2015 15:55	11/23/2015	15:55	34	35	73	0	0.0	0.0	0.00	762.1
	11/23/2015 17:13	11/23/2015	17:13	34	34.5	64	0	0.0	0.0	0.00	762.1
	11/23/2015 17:14	11/23/2015	17:14		30				0.0	0.00	762.1
SW-186 Event 3	12/3/2015 7:57	12/3/2015	7:57	31	32	61	0	0.0			762.1
	12/3/2015 8:12	12/3/2015	8:12	31	32.5	65	0	0.0	0.0	0.00	762.1
	12/3/2015 8:13	12/3/2015	8:13	34	35	65	0	0.0	0.0	0.00	762.1
	12/3/2015 10:37	12/3/2015	10:37	34	35	69	0	0.0	0.0	0.00	762.1
	12/3/2015 11:56	12/3/2015	11:56	34	35	74	0	0.0	0.0	0.00	762.1
	12/3/2015 13:46	12/3/2015	13:46	33.5	34	74	0	0.0	0.0	0.00	762.1
	12/3/2015 13:48	12/3/2015	13:48	35	35	74	0	0.0	0.0	0.00	762.1
	12/3/2015 14:58	12/3/2015	14:58	35	35	71	0	0.0	0.0	0.00	762.1
	12/3/2015 15:54	12/3/2015	15:54	35	35	71	0	0.0	0.0	0.00	762.1
	12/3/2015 16:54	12/3/2015	16:54	35	35	68	<2	0.0	0.0	0.00	762.1
	12/4/2015 7:50	12/4/2015	7:50	33.5	34	60	6	12.5	5601.2	640.78	1402.9
	12/4/2015 7:51	12/4/2015	7:51		27				12.5	1.43	1404.3

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-186 Event 4	12/8/2015 8:27	12/8/2015	8:27	31.5	31.5	64	0	0.0				1404.3	
	12/8/2015 9:04	12/8/2015	9:04	31.5	31.5	71	0	0.0	0.0	0.00		1404.3	
	12/8/2015 9:05	12/8/2015	9:05	34	35	71	0	0.0	0.0	0.00		1404.3	
	12/8/2015 10:35	12/8/2015	10:35	34	34.5	82	0	0.0	0.0	0.00		1404.3	
	12/8/2015 11:48	12/8/2015	11:48	34	35	83	0	0.0	0.0	0.00		1404.3	
	12/8/2015 12:48	12/8/2015	12:48	34	34.5	83	0	0.0	0.0	0.00		1404.3	
	12/8/2015 14:19	12/8/2015	14:19	34	34.5	83	0	0.0	0.0	0.00		1404.3	
	12/8/2015 15:50	12/8/2015	15:50	34	34.5	79	0	0.0	0.0	0.00		1404.3	
	12/8/2015 17:10	12/8/2015	17:10	34	35	70	0	0.0	0.0	0.00		1404.3	
	12/9/2015 7:52	12/9/2015	7:52	33	33	61	5	10.4	4565.9	522.34		1926.7	
	12/9/2015 7:53	12/9/2015	7:53	35	35	61	7.5	15.9	13.1	1.50		1928.2	
	12/9/2015 8:24	12/9/2015	8:24	35	35	64	7.5	15.8	490.9	56.15		1984.3	
	12/9/2015 9:18	12/9/2015	9:18	35	35	73	7.5	15.7	850.0	97.24		2081.6	
	12/9/2015 10:26	12/9/2015	10:26	34	35	77	7.5	15.5	1058.1	121.05		2202.6	
	12/9/2015 11:47	12/9/2015	11:47	33.5	35	82	7	14.3	1203.9	137.73		2340.4	
	12/9/2015 12:54	12/9/2015	12:54	35.5	35.5	82	7.5	15.6	1001.3	114.55		2454.9	
	12/9/2015 14:14	12/9/2015	14:14	35.5	35.5	77	7.5	15.7	1252.2	143.25		2598.2	
	12/9/2015 15:18	12/9/2015	15:18	35.5	35.5	80	7.5	15.6	1002.7	114.71		2712.9	
	12/9/2015 16:59	12/9/2015	16:59	35.5	35.5	72	8	16.8	1639.3	187.54		2900.4	
	12/9/2015 17:00	12/9/2015	17:00		28				16.8	1.92		2902.3	
SW-186 Event 5	1/14/2016 7:48	1/14/2016	7:48	27	28.5	44	0	0.0				2902.3	
	1/14/2016 8:12	1/14/2016	8:12	27	28.5	49	0	0.0	0.0	0.00		2902.3	
	1/14/2016 8:13	1/14/2016	8:13	33	34.5	49	0	0.0	0.0	0.00		2902.3	
	1/14/2016 9:26	1/14/2016	9:26	33.5	35	60	0	0.0	0.0	0.00		2902.3	
	1/14/2016 11:33	1/14/2016	11:33	33	35	70	0	0.0	0.0	0.00		2902.3	
	1/14/2016 13:15	1/14/2016	13:15	33	34	68	0	0.0	0.0	0.00		2902.3	
	1/14/2016 14:37	1/14/2016	14:37	33	33	66	0	0.0	0.0	0.00		2902.3	
	1/14/2016 14:39	1/14/2016	14:39	35	36	66	0	0.0	0.0	0.00		2902.3	
	1/14/2016 16:14	1/14/2016	16:14	35.5	36	63	<2	0.0	0.0	0.00		2902.3	
	1/14/2016 17:01	1/14/2016	17:01	35.5	36	62	3	6.4	149.7	17.12		2919.5	
	1/15/2016 7:19	1/15/2016	7:19	35.5	36	67	5.5	11.6	7716.9	882.82		3802.3	
	1/15/2016 7:20	1/15/2016	7:20		28				11.6	1.33		3803.6	
	SW-186 Event 6	1/20/2016 7:44	1/20/2016	7:44	28	29	37	0	0.0				3803.6
		1/20/2016 7:13	1/20/2016	7:13	27	28	44	0	0.0	0.0	0.00		3803.6
1/20/2016 8:14		1/20/2016	8:14	36	38	44	4.5	9.8	298.3	34.12		3837.7	
1/20/2016 9:37		1/20/2016	9:37	37	37	64	4	8.6	762.9	87.28		3925.0	
1/20/2016 11:02		1/20/2016	11:02	36.5	37	68	4	8.5	728.0	83.29		4008.3	
1/20/2016 12:30		1/20/2016	12:30	36	36.5	70	4.5	9.5	794.3	90.87		4099.2	
1/20/2016 14:20		1/20/2016	14:20	36	36.5	71	5	10.6	1105.5	126.47		4225.6	
1/20/2016 15:53		1/20/2016	15:53	36	36.5	69	5	10.6	984.4	112.61		4338.3	
1/20/2016 16:53		1/20/2016	16:53	36	36.5	64	5	10.6	637.3	72.91		4411.2	
1/21/2016 7:42		1/21/2016	7:42	35	35	55	8	17.0	12297.2	1406.80		5818.0	
1/21/2016 7:43		1/21/2016	7:43		27				17.0	1.95		5819.9	
SW-186 Event 7	2/12/2016 7:34	2/12/2016	7:34	35	34	62	0	0.0				5819.9	
	2/12/2016 7:40	2/12/2016	7:40	35	34	62	0	0.0	0.0	0.00		5819.9	
	2/12/2016 7:41	2/12/2016	7:41	36	36	62	0	0.0	0.0	0.00		5819.9	
	2/12/2016 8:57	2/12/2016	8:57	36.5	35	66	0	0.0	0.0	0.00		5819.9	
	2/12/2016 10:16	2/12/2016	10:16	35.5	34.5	64	<2	0.0	0.0	0.00		5819.9	
	2/12/2016 11:04	2/12/2016	11:04	36	34.5	75	<2	0.0	0.0	0.00		5819.9	
	2/12/2016 12:05	2/12/2016	12:05	35.5	34	78	<2	0.0	0.0	0.00		5819.9	

LCP Chemicals Site, Brunswick, GA
SW-186

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/12/2016 12:06	2/12/2016	12:06		27					0.0	0.00	5819.9

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-186 Event 8	2/15/2016 7:35	2/15/2016	7:35	31	30	51	0	0.0				5819.9
	2/15/2016 8:24	2/15/2016	8:24	30	29	54	0	0.0	0.0	0.00		5819.9
	2/15/2016 8:27	2/15/2016	8:27	37	36.5	54	<2	0.0	0.0	0.00		5819.9
	2/15/2016 10:08	2/15/2016	10:08	38	37	64	<2	0.0	0.0	0.00		5819.9
	2/15/2016 11:19	2/15/2016	11:19	38	37	65	3	6.5	231.1	26.43		5846.3
	2/15/2016 12:27	2/15/2016	12:27	38	37	70	3	6.5	441.5	50.51		5896.9
	2/15/2016 14:16	2/15/2016	14:16	37.5	36	75	4	8.6	819.1	93.70		5990.6
	2/15/2016 15:45	2/15/2016	15:45	37.5	36	72	4	8.6	762.3	87.20		6077.8
	2/15/2016 17:00	2/15/2016	17:00	37.5	35.5	69	4.5	9.7	684.6	78.32		6156.1
	2/15/2016 17:01	2/15/2016	17:01		28.5				9.7	1.11		6157.2
SW-186 Event 9	2/17/2016 7:38	2/17/2016	7:38	32.5	32.5	55	4	8.3				6157.2
	2/17/2016 7:44	2/17/2016	7:44	37	37	55	6	13.0	63.9	7.31		6164.5
	2/17/2016 10:16	2/17/2016	10:16	37	38	72	6	12.8	1962.7	224.54		6389.0
	2/17/2016 12:47	2/17/2016	12:47	37	37.5	76	6	12.8	1929.5	220.74		6609.8
	2/17/2016 13:57	2/17/2016	13:57	37	37.5	77	6	12.7	892.3	102.08		6711.9
	2/17/2016 15:00	2/17/2016	15:00	37	37.5	77	6	12.7	802.7	91.83		6803.7
	2/17/2016 16:03	2/17/2016	16:03	37	37.5	76	6	12.8	803.1	91.87		6895.6
	2/17/2016 16:04	2/17/2016	16:04		28.5				12.8	1.46		6897.0
	SW-186 Event 10	2/19/2016 7:17	2/19/2016	7:17	30	28	52	4	8.1			
2/19/2016 7:38		2/19/2016	7:38	30.5	30.5	54	5	10.1	191.4	21.90		6918.9
2/19/2016 7:40		2/19/2016	7:40	37	37	54	8	17.4	27.5	3.15		6922.1
2/19/2016 8:42		2/19/2016	8:42	37.5	37	67	8	17.2	1073.2	122.78		7044.8
2/19/2016 9:25		2/19/2016	9:25	37.5	37	69	8	17.2	740.6	84.72		7129.6
2/19/2016 9:26		2/19/2016	9:26		30				17.2	1.97		7131.5
SW-186 Event 11	2/22/2016 7:31	2/22/2016	7:31	30.5	31	65	0	0.0				7131.5
	2/22/2016 7:35	2/22/2016	7:35	30.5	31	65	0	0.0	0.0	0.00		7131.5
	2/22/2016 7:36	2/22/2016	7:36	33.5	34	65	0	0.0	0.0	0.00		7131.5
	2/22/2016 9:18	2/22/2016	9:18	32.5	32	70	0	0.0	0.0	0.00		7131.5
	2/22/2016 9:19	2/22/2016	9:19	37	37	70	4	8.6	4.3	0.49		7132.0
	2/22/2016 11:26	2/22/2016	11:26	37	37	79	4	8.5	1081.4	123.71		7255.7
	2/22/2016 13:28	2/22/2016	13:28	37	37	82	4	8.5	1032.8	118.15		7373.9
	2/22/2016 15:15	2/22/2016	15:15	36.5	36.5	82	4	8.4	902.3	103.22		7477.1
	2/22/2016 17:06	2/22/2016	17:06	36	36	74	4	8.4	935.0	106.96		7584.1
	2/22/2016 17:07	2/22/2016	17:07		29				8.4	0.96		7585.0
SW-186 Event 12	2/23/2016 11:40	2/23/2016	11:40	31	31	81	4	7.9				7585.0
	2/23/2016 11:51	2/23/2016	11:51	31	31	83	4	7.9	87.3	9.99		7595.0
	2/23/2016 11:52	2/23/2016	11:52	38	37.5	83	7	14.9	11.4	1.31		7596.3
	2/23/2016 13:38	2/23/2016	13:38	38	38	83	7.5	16.0	1638.4	187.43		7783.8
	2/23/2016 14:51	2/23/2016	14:51	38	38	78	7.5	16.1	1170.0	133.85		7917.6
	2/23/2016 15:59	2/23/2016	15:59	38	38.5	80	7.5	16.0	1091.5	124.86		8042.5
	2/23/2016 16:56	2/23/2016	16:56	38	37.5	74	7.5	16.1	916.7	104.87		8147.3
	2/23/2016 16:57	2/23/2016	16:57		30.5				16.1	1.85		8149.2
	Total CO ₂ Mass (lbs):											8149.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-187 Event 1	10/20/2015 11:36	10/20/2015	11:36	11.5	11.5	82	0	0.0				0
	10/20/2015 11:43	10/20/2015	11:43	11.5	11.5	82	0	0.0		0.0	0.00	0.0
	10/20/2015 12:01	10/20/2015	12:01	11.5	11.5	84	0	0.0		0.0	0.00	0.0
	10/20/2015 12:02	10/20/2015	12:02	20	22	84	0	0.0		0.0	0.00	0.0
	10/20/2015 14:13	10/20/2015	14:13	20	23	85	0	0.0		0.0	0.00	0.0
	10/20/2015 14:14	10/20/2015	14:14	26	27	85	0	0.0		0.0	0.00	0.0
	10/20/2015 15:21	10/20/2015	15:21	26	27	84	0	0.0		0.0	0.00	0.0
	10/20/2015 15:22	10/20/2015	15:22	28	30	84	3	5.7		2.9	0.33	0.3
	10/20/2015 16:36	10/20/2015	16:36	29	30	82	3	5.8		427.9	48.95	49.3
	10/20/2015 16:37	10/20/2015	16:37	33	35	82	8	16.2		11.0	1.26	50.5
10/20/2015 17:17	10/20/2015	17:17	34	35	78	7	14.4		612.7	70.09	120.6	
10/20/2015 17:18	10/20/2015	17:18		30					14.4	1.65	122.3	
SW-187 Event 2	11/19/2015 7:46	11/19/2015	7:46	28	28	77	0	0.0				122.3
	11/19/2015 8:12	11/19/2015	8:12	27.5	27	77	0	0.0		0.0	0.00	122.3
	11/19/2015 8:13	11/19/2015	8:13	34	34	77	3.5	7.2		3.6	0.41	122.7
	11/19/2015 9:34	11/19/2015	9:34	36	34	78	5	10.5		717.4	82.07	204.8
	11/19/2015 11:00	11/19/2015	11:00	36	34	78	6	12.6		993.5	113.66	318.4
	11/19/2015 12:31	11/19/2015	12:31	35	33.5	80	6	12.5		1140.0	130.42	448.8
	11/19/2015 13:23	11/19/2015	13:23	35	33.5	80	6	12.5		647.5	74.08	522.9
	11/19/2015 15:49	11/19/2015	15:49	34.5	33.5	77	6	12.4		1816.0	207.75	730.7
11/19/2015 15:50	11/19/2015	15:50		29					12.4	1.42	732.1	
SW-187 Event 3	11/24/2015 7:33	11/24/2015	7:33	27	26	51	0	0.0				732.1
	11/24/2015 7:55	11/24/2015	7:55	26	25	57	0	0.0		0.0	0.00	732.1
	11/24/2015 7:56	11/24/2015	7:56	34	33	57	8	16.8		8.4	0.96	733.1
	11/24/2015 8:44	11/24/2015	8:44	35	32	68	10	21.0		907.3	103.80	836.9
	11/24/2015 10:20	11/24/2015	10:20	34	32	72	10	20.7		2001.5	228.97	1065.8
	11/24/2015 11:25	11/24/2015	11:25	34	32	72	10	20.7		1345.5	153.93	1219.8
11/24/2015 11:26	11/24/2015	11:26		28.5					20.7	2.37	1222.1	
SW-187 Event 4	11/30/2015 12:27	11/30/2015	12:27	27	25	98	0	0.0				1222.1
	11/30/2015 13:00	11/30/2015	13:00	26.5	24.5	95	0	0.0		0.0	0.00	1222.1
	11/30/2015 13:05	11/30/2015	13:05	32	30.5	95	3	5.9		14.9	1.70	1223.8
	11/30/2015 14:44	11/30/2015	14:44	31.5	30	86	6	11.9		885.0	101.24	1325.1
	11/30/2015 16:04	11/30/2015	16:04	31.5	30	80	6	12.0		957.2	109.51	1434.6
	11/30/2015 17:17	11/30/2015	17:17	31	29.5	74	6	12.0		876.1	100.22	1534.8
11/30/2015 17:19	11/30/2015	17:19		24					24.0	2.75	1537.5	
SW-187 Event 5	12/9/2015 7:47	12/9/2015	7:47	28	27	61	0	0.0				1537.5
	12/9/2015 8:27	12/9/2015	8:27	27.5	26	64	0	0.0		0.0	0.00	1537.5
	12/9/2015 8:28	12/9/2015	8:28	35	33.5	64	5.5	11.6		5.8	0.66	1538.2
	12/9/2015 9:19	12/9/2015	9:19	34.5	32.5	73	7	14.6		666.7	76.27	1614.5
	12/9/2015 10:27	12/9/2015	10:27	34	32	77	8	16.5		1055.1	120.70	1735.2
	12/9/2015 11:48	12/9/2015	11:48	33	31.5	82	8	16.2		1324.7	151.55	1886.7
	12/9/2015 12:55	12/9/2015	12:55	34	32	82	9.5	19.5		1196.2	136.84	2023.6
	12/9/2015 14:15	12/9/2015	14:15	34	32	77	9.5	19.6		1561.9	178.68	2202.3
	12/9/2015 15:19	12/9/2015	15:19	34	32	80	9.5	19.5		1250.7	143.08	2345.3
	12/9/2015 17:00	12/9/2015	17:00	34	32	72	10	20.7		2030.8	232.33	2577.7
	12/10/2015 8:03	12/10/2015	8:03	32.5	29	64	16	32.9		24180.9	2766.29	5344.0
	12/10/2015 8:04	12/10/2015	8:04		24					32.9	3.76	5347.7

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-187 Event 6	12/17/2015 7:40	12/17/2015	7:40	27	26	75	0	0.0				5347.7
	12/17/2015 8:19	12/17/2015	8:19	26	24	77	<2	0.0		0.0	0.00	5347.7
	12/17/2015 8:20	12/17/2015	8:20	31	30	77	9	18.0		9.0	1.03	5348.7
	12/17/2015 9:35	12/17/2015	9:35	31	29	80	9	17.9		1344.5	153.81	5502.5
	12/17/2015 10:44	12/17/2015	10:44	30.5	28	83	9.5	18.7		1263.9	144.60	5647.1
	12/17/2015 11:51	12/17/2015	11:51	30	27	81	9.5	18.7		1253.0	143.34	5790.5
	12/17/2015 12:52	12/17/2015	12:52	30	27.5	83	9.5	18.6		1137.6	130.14	5920.6
	12/17/2015 13:42	12/17/2015	13:42	30	28	83	9.5	18.6		931.5	106.57	6027.2
	12/17/2015 14:32	12/17/2015	14:32	29.5	28	80	9.5	18.6		930.2	106.42	6133.6
	12/17/2015 16:00	12/17/2015	16:00	29.5	27	76	8.5	16.7		1551.6	177.50	6311.1
	12/17/2015 16:01	12/17/2015	16:01		24					16.7	1.91	6313.0
	SW-187 Event 7	12/21/2015 7:38	12/21/2015	7:38	28	27	63	0	0.0			
12/21/2015 8:07		12/21/2015	8:07	27	25	65	<2	0.0		0.0	0.00	6313.0
12/21/2015 8:08		12/21/2015	8:08	34	32	65	7	14.6		7.3	0.83	6313.8
12/21/2015 9:28		12/21/2015	9:28	33.5	30.5	74	10	20.6		1405.7	160.81	6474.7
12/21/2015 11:45		12/21/2015	11:45	33	31	81	10	20.3		2798.8	320.18	6794.8
12/21/2015 13:05		12/21/2015	13:05	33	30.5	85	10	20.2		1621.4	185.49	6980.3
12/21/2015 14:12		12/21/2015	14:12	33	30.5	77	10	20.4		1360.6	155.65	7136.0
12/21/2015 15:12		12/21/2015	15:12	33	30.5	77	10	20.4		1223.1	139.92	7275.9
12/21/2015 16:06		12/21/2015	16:06	32.5	30.5	76	10	20.3		1098.4	125.65	7401.6
12/21/2015 17:07		12/21/2015	17:07	33.5	31	74	10.5	21.6		1277.2	146.11	7547.7
12/21/2015 17:08		12/21/2015	17:08		24					21.6	2.47	7550.1
SW-187 Event 8		1/8/2016 7:44	1/8/2016	7:44	26	26	62	0	0.0			
	1/8/2016 8:16	1/8/2016	8:16	28	24	62	0	0.0		0.0	0.00	7550.1
	1/8/2016 8:17	1/8/2016	8:17	35	33.5	62	5	10.6		5.3	0.60	7550.7
	1/8/2016 9:48	1/8/2016	9:48	34.5	33	65	9	18.9		1338.5	153.13	7703.9
	1/8/2016 11:30	1/8/2016	11:30	33.5	32	68	10.5	21.7		2068.7	236.66	7940.5
	1/8/2016 13:18	1/8/2016	13:18	33.5	30.5	70	10.5	21.7		2342.0	267.93	8208.5
	1/8/2016 14:42	1/8/2016	14:42	33.5	30.5	72	10.5	21.6		1818.0	207.98	8416.4
	1/8/2016 15:54	1/8/2016	15:54	33	30.5	70	10.5	21.5		1554.2	177.80	8594.2
	1/8/2016 17:09	1/8/2016	17:09	33	30	67	11	22.6		1657.2	189.59	8783.8
	1/8/2016 17:10	1/8/2016	17:10		24					22.6	2.59	8786.4
SW-187 Event 9	1/11/2016 7:33	1/11/2016	7:33	29	28	42	0	0.0				8786.4
	1/11/2016 8:11	1/11/2016	8:11	27	25.5	48	4	7.8		148.9	17.04	8803.5
	1/11/2016 8:12	1/11/2016	8:12	34	34.5	48	13	27.6		17.7	2.03	8805.5
	1/11/2016 10:00	1/11/2016	10:00	34	31	64	13	27.1		2953.2	337.84	9143.3
	1/11/2016 11:44	1/11/2016	11:44	34	31	66	13	27.1		2818.0	322.38	9465.7
	1/11/2016 13:44	1/11/2016	13:44	34	31	68	13.5	28.1		3307.5	378.38	9844.1
	1/11/2016 15:12	1/11/2016	15:12	34	31	68	13.5	28.1		2468.9	282.44	10126.5
	1/11/2016 17:05	1/11/2016	17:05	35	30.5	62	14	29.6		3256.0	372.48	10499.0
	1/11/2016 17:06	1/11/2016	17:06		27					29.6	3.38	10502.4
SW-187 Event 10	1/13/2016 8:06	1/13/2016	8:06	25.5	23.5	42	4	7.7				10502.4
	1/13/2016 8:36	1/13/2016	8:36	25.5	23	58	8	15.2		344.6	39.42	10541.8
	1/13/2016 8:37	1/13/2016	8:37	34	29.5	58	18	37.8		26.5	3.03	10544.8
	1/13/2016 10:10	1/13/2016	10:10	33.5	30	64	18	37.4		3494.0	399.72	10944.6
	1/13/2016 11:42	1/13/2016	11:42	34	30	67	17.5	36.4		3393.1	388.17	11332.7
	1/13/2016 14:03	1/13/2016	14:03	35	30	68	17	35.7		5083.0	581.50	11914.2
	1/13/2016 15:40	1/13/2016	15:40	35	30	65	17	35.8		3467.6	396.70	12310.9
	1/13/2016 17:06	1/13/2016	17:06	35	30.5	62	17	35.9		3083.6	352.76	12663.7
	1/13/2016 17:07	1/13/2016	17:07		26					35.9	4.11	12667.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-187 Event 11	1/15/2016 7:18	1/15/2016	7:18	27	25.5	67	4.5	8.7			12667.8
	1/15/2016 7:43	1/15/2016	7:43	27.5	25	67	11.5	22.2	386.2	44.18	12712.0
	1/15/2016 7:44	1/15/2016	7:44	34	29	67	15	31.2	26.7	3.06	12715.0
	1/15/2016 8:48	1/15/2016	8:48	34	29.5	67	17	35.4	2130.2	243.69	12958.7
	1/15/2016 10:30	1/15/2016	10:30	34	29	68	17	35.3	3605.3	412.45	13371.2
	1/15/2016 11:29	1/15/2016	11:29	33	28.5	68	17	35.0	2073.5	237.21	13608.4
	1/15/2016 11:30	1/15/2016	11:30		24.5				35.0	4.00	13612.4
SW-187 Event 12	1/19/2016 7:32	1/19/2016	7:32	26.5	28	44	0	0.0			13612.4
	1/19/2016 7:59	1/19/2016	7:59	25.5	23.5	46	<2	0.0	0.0	0.00	13612.4
	1/19/2016 8:00	1/19/2016	8:00	30.5	29	46	6	12.3	6.1	0.70	13613.1
	1/19/2016 9:44	1/19/2016	9:44	30	27.5	56	9.5	19.1	1632.9	186.81	13799.9
	1/19/2016 11:28	1/19/2016	11:28	30	27	62	10	20.0	2035.5	232.86	14032.8
	1/19/2016 14:00	1/19/2016	14:00	30	27	64	10	20.0	3039.3	347.69	14380.4
	1/19/2016 16:04	1/19/2016	16:04	30	26.5	64	10	20.0	2477.0	283.36	14663.8
	1/19/2016 17:02	1/19/2016	17:02	30	27	59	10	20.1	1161.5	132.87	14796.7
	1/19/2016 17:03	1/19/2016	17:03		23				20.1	2.30	14799.0
SW-187 Event 13	2/17/2016 7:39	2/17/2016	7:39	29	30	55	0	0.0			14799.0
	2/17/2016 7:42	2/17/2016	7:42	36	37	55	<2	0.0	0.0	0.00	14799.0
	2/17/2016 10:18	2/17/2016	10:18	34	32.5	72	10	20.7	1614.6	184.72	14983.7
	2/17/2016 12:46	2/17/2016	12:46	34	33	76	10	20.6	3057.7	349.81	15333.5
	2/17/2016 13:56	2/17/2016	13:56	34	33	77	10	20.6	1442.7	165.05	15498.5
	2/17/2016 14:59	2/17/2016	14:59	34	33	77	10	20.6	1297.8	148.47	15647.0
	2/17/2016 16:05	2/17/2016	16:05	34	33	76	10	20.6	1360.3	155.62	15802.6
	2/17/2016 16:06	2/17/2016	16:06		28.5				20.6	2.36	15805.0
SW-187 Event 14	2/23/2016 11:37	2/23/2016	11:37	31.5	33	81	0	0.0			15805.0
	2/23/2016 11:52	2/23/2016	11:52	30	31	83	0	0.0	0.0	0.00	15805.0
	2/23/2016 11:53	2/23/2016	11:53	36	37	83	5.5	11.5	5.7	0.66	15805.6
	2/23/2016 13:37	2/23/2016	13:37	35	35	83	10	20.7	1674.0	191.50	15997.2
	2/23/2016 14:50	2/23/2016	14:50	34	35	78	11	22.6	1581.6	180.94	16178.1
	2/23/2016 16:00	2/23/2016	16:00	34	34.5	78	12	24.7	1656.7	189.53	16367.6
	2/23/2016 16:52	2/23/2016	16:52	34	34	74	12	24.8	1286.7	147.20	16514.8
	2/23/2016 16:53	2/23/2016	16:53		30				24.8	2.84	16517.7
Total CO ₂ Mass (lbs):											16517.7

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-188 Event 1	10/26/2015 11:39	10/26/2015	11:39	24	24	86	0	0.0				0
	10/26/2015 11:53	10/26/2015	11:53	26	28	87	0	0.0	0.0	0.00	0.0	0.0
	10/26/2015 12:07	10/26/2015	12:07	27	27	87	0	0.0	0.0	0.00	0.0	0.0
	10/26/2015 12:08	10/26/2015	12:08	29	31	87	0	0.0	0.0	0.00	0.0	0.0
	10/26/2015 12:20	10/26/2015	12:20	31	32	87	0	0.0	0.0	0.00	0.0	0.0
	10/26/2015 12:33	10/26/2015	12:33	33	34	87	3	6.1	39.4	4.50	4.5	4.5
	10/26/2015 13:28	10/26/2015	13:28	33	33	84	4	8.1	389.3	44.54	49.0	49.0
	10/26/2015 13:29	10/26/2015	13:29	34	34	84	6	12.3	10.2	1.17	50.2	50.2
	10/26/2015 14:19	10/26/2015	14:19	34	33	82	5.5	11.3	588.8	67.36	117.6	117.6
	10/26/2015 14:20	10/26/2015	14:20	35	34	82	8	16.6	13.9	1.59	119.2	119.2
	10/26/2015 15:54	10/26/2015	15:54	35	34	81	8	16.6	1558.4	178.29	297.4	297.4
10/27/2015 11:57	10/27/2015	11:57	35	30	76	18	37.5	32534.3	3721.92	4019.4	4019.4	
10/27/2015 11:59	10/27/2015	11:59		24				75.0	8.58	4027.9	4027.9	
SW-188 Event 2	11/20/2015 7:54	11/20/2015	7:54	27	28	69	0	0.0				4027.9
	11/20/2015 8:20	11/20/2015	8:20	26	25.5	74	6.5	12.3	159.4	18.23	4046.2	4046.2
	11/20/2015 8:21	11/20/2015	8:21	34	32	74	14	28.9	20.6	2.36	4048.5	4048.5
	11/20/2015 9:56	11/20/2015	9:56	34	32	79	14	28.8	2741.2	313.59	4362.1	4362.1
	11/20/2015 11:29	11/20/2015	11:29	34	32.5	81	12	24.6	2483.6	284.12	4646.3	4646.3
	11/20/2015 13:14	11/20/2015	13:14	34	33	80	12	24.6	2586.9	295.94	4942.2	4942.2
	11/20/2015 15:22	11/20/2015	15:22	34	32.5	80	12	24.6	3155.1	360.94	5303.1	5303.1
	11/20/2015 15:24	11/20/2015	15:24		28.5				49.3	5.64	5308.8	5308.8
SW-188 Event 3	11/23/2015 8:00	11/23/2015	8:00	26	26	54	0	0.0				5308.8
	11/23/2015 8:37	11/23/2015	8:37	25	23.5	58	4	7.6	140.0	16.02	5324.8	5324.8
	11/23/2015 8:38	11/23/2015	8:38	34	29.5	58	16	33.6	20.6	2.35	5327.1	5327.1
	11/23/2015 9:53	11/23/2015	9:53	34	30.5	69	15.5	32.2	2466.1	282.13	5609.3	5609.3
	11/23/2015 12:05	11/23/2015	12:05	34	31.5	72	14	29.0	4036.6	461.79	6071.1	6071.1
	11/23/2015 14:36	11/23/2015	14:36	34	32	74	12.5	25.8	4137.9	473.37	6544.4	6544.4
	11/23/2015 15:31	11/23/2015	15:31	34	32	73	13	26.9	1449.5	165.83	6710.3	6710.3
	11/23/2015 17:02	11/23/2015	17:02	34	31.5	71	13	26.9	2448.9	280.15	6990.4	6990.4
	11/23/2015 17:03	11/23/2015	17:03		28				26.9	3.08	6993.5	6993.5
SW-188 Event 4	12/2/2015 8:13	12/2/2015	8:13	33	33	72	0	0.0				6993.5
	12/2/2015 8:22	12/2/2015	8:22	32	30	72	8	16.2	73.0	8.35	7001.8	7001.8
	12/2/2015 9:45	12/2/2015	9:45	32	30	76	8	16.1	1343.0	153.63	7155.5	7155.5
	12/2/2015 11:45	12/2/2015	11:45	32	30	87	10	20.0	2167.4	247.96	7403.4	7403.4
	12/2/2015 13:01	12/2/2015	13:01	32	30	86	10	20.0	1518.8	173.75	7577.2	7577.2
	12/2/2015 14:32	12/2/2015	14:32	32	30	88	10	20.0	1817.7	207.95	7785.1	7785.1
	12/2/2015 15:48	12/2/2015	15:48	29	29	77	10	19.5	1499.3	171.52	7956.7	7956.7
	12/2/2015 16:52	12/2/2015	16:52	29	29	76	10	19.5	1248.5	142.83	8099.5	8099.5
	12/2/2015 16:53	12/2/2015	16:53		26.5				19.5	2.23	8101.7	8101.7
SW-188 Event 5	12/11/2015 7:58	12/11/2015	7:58	36	34	52	8	17.2				8101.7
	12/11/2015 8:15	12/11/2015	8:15	33	33	66	15	30.9	409.3	46.82	8148.5	8148.5
	12/11/2015 9:26	12/11/2015	9:26	30	30	78	14	27.6	2076.5	237.56	8386.1	8386.1
	12/11/2015 11:05	12/11/2015	11:05	30	30	78	14	27.6	2731.1	312.44	8698.5	8698.5
	12/11/2015 11:06	12/11/2015	11:06		26				27.6	3.16	8701.7	8701.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-188 Event 6	12/14/2015 7:53	12/14/2015	7:53	26	26	74	4	7.5				8701.7
	12/14/2015 8:42	12/14/2015	8:42	24	23.5	77	8	14.7	544.2	62.26	8764.0	
	12/14/2015 8:43	12/14/2015	8:43	34	29	77	18	37.1	25.9	2.96	8766.9	
	12/14/2015 10:26	12/14/2015	10:26	34	30	77	16	33.0	3607.1	412.65	9179.6	
	12/14/2015 12:18	12/14/2015	12:18	34	30	79	14	28.8	3457.7	395.57	9575.1	
	12/14/2015 13:53	12/14/2015	13:53	34	30.5	79	14	28.8	2734.6	312.83	9888.0	
	12/14/2015 14:59	12/14/2015	14:59	34	32	80	14.5	29.8	1932.8	221.11	10109.1	
	12/14/2015 15:55	12/14/2015	15:55	34	32	79	14	28.8	1639.9	187.61	10296.7	
	12/14/2015 17:11	12/14/2015	17:11	36	32	77	15	31.5	2292.3	262.24	10558.9	
	12/14/2015 17:12	12/14/2015	17:12		28				31.5	3.61	10562.5	
SW-188 Event 7	12/16/2015 7:52	12/16/2015	7:52	27	27	70	0	0.0				10562.5
	12/16/2015 8:27	12/16/2015	8:27	26	24.5	71	5	9.5	165.5	18.94	10581.5	
	12/16/2015 8:28	12/16/2015	8:28	34	30	71	16	33.2	21.3	2.44	10583.9	
	12/16/2015 9:38	12/16/2015	9:38	30.5	29	74	17	33.8	2344.0	268.15	10852.1	
	12/16/2015 11:27	12/16/2015	11:27	29.5	29.5	76	15	29.4	3447.9	394.44	11246.5	
	12/16/2015 12:41	12/16/2015	12:41	29	29	78	15	29.2	2170.7	248.32	11494.8	
	12/16/2015 14:47	12/16/2015	14:47	29	29	76	14.5	28.3	3623.9	414.57	11909.4	
	12/16/2015 16:04	12/16/2015	16:04	31	29.5	76	17.5	34.9	2434.8	278.54	12187.9	
	12/16/2015 17:11	12/16/2015	17:11	35	29.5	75	18	37.5	2428.0	277.76	12465.7	
	12/16/2015 17:12	12/16/2015	17:12		16				37.5	4.29	12470.0	
SW-188 Event 8	12/18/2015 8:11	12/18/2015	8:11	28	30	72	0	0.0				12470.0
	12/18/2015 8:38	12/18/2015	8:38	25	25	70	10	18.7	252.4	28.88	12498.9	
	12/18/2015 8:39	12/18/2015	8:39	33	31	70	18	36.9	27.8	3.18	12502.1	
	12/18/2015 9:35	12/18/2015	9:35	35	28	70	20	41.9	2207.9	252.59	12754.6	
	12/18/2015 10:27	12/18/2015	10:27	35	28	74	19.5	40.7	2148.1	245.74	13000.4	
	12/18/2015 11:31	12/18/2015	11:31	34	28.5	74	18	37.2	2492.6	285.15	13285.5	
	12/18/2015 12:42	12/18/2015	12:42	34	28.5	73	18	37.2	2641.7	302.21	13587.7	
	12/18/2015 13:24	12/18/2015	13:24	34	28.5	72	17.5	36.2	1542.5	176.46	13764.2	
	12/18/2015 14:34	12/18/2015	14:34	39	31	72	23	50.0	3019.2	345.39	14109.6	
	12/18/2015 14:35	12/18/2015	14:35		26				50.0	5.72	14115.3	
SW-188 Event 9	12/19/2015 11:07	12/19/2015	11:07	28	27	67	18	35.0				14115.3
	12/19/2015 11:36	12/19/2015	11:36	27	24.5	69	19	36.5	1036.6	118.58	14233.9	
	12/19/2015 11:37	12/19/2015	11:37	31.5	27	69	24	48.5	42.5	4.86	14238.8	
	12/19/2015 12:54	12/19/2015	12:54	36	28.5	70	22.5	47.6	3701.5	423.45	14662.2	
	12/19/2015 13:39	12/19/2015	13:39	36	28.5	71	22	46.5	2118.6	242.36	14904.6	
	12/19/2015 14:47	12/19/2015	14:47	35	28.5	72	20.5	42.9	3039.7	347.74	15252.3	
	12/19/2015 15:45	12/19/2015	15:45	35	28.5	72	20	41.8	2456.5	281.02	15533.3	
	12/19/2015 17:10	12/19/2015	17:10	38	29.5	69	22	47.5	3798.5	434.54	15967.9	
	12/19/2015 17:11	12/19/2015	17:11		25.5				47.5	5.44	15973.3	
SW-188 Event 10	12/22/2015 7:50	12/22/2015	7:50	30	31	74	0	0.0				15973.3
	12/22/2015 8:15	12/22/2015	8:15	25.5	25	74	12	22.5	281.2	32.17	16005.5	
	12/22/2015 8:16	12/22/2015	8:16	33	30	74	21	42.9	32.7	3.74	16009.2	
	12/22/2015 10:18	12/22/2015	10:18	33	29.5	76	22	44.9	5357.1	612.85	16622.1	
	12/22/2015 11:09	12/22/2015	11:09	33	30	76	22	44.9	2289.4	261.90	16884.0	
	12/22/2015 11:10	12/22/2015	11:10		25				44.9	5.14	16889.1	
Total CO ₂ Mass (lbs):											16889.1	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-189 Event 1	10/28/2015 9:06	10/28/2015	9:06	12	10	78	0	0.0				0
	10/28/2015 9:12	10/28/2015	9:12	15	14	78	0	0.0	0.0	0.00	0.0	
	10/28/2015 9:16	10/28/2015	9:16	19	18	78	0	0.0	0.0	0.00	0.0	
	10/28/2015 9:21	10/28/2015	9:21	22	21	78	0	0.0	0.0	0.00	0.0	
	10/28/2015 9:26	10/28/2015	9:26	25	24	78	4	7.4	18.6	2.12	2.1	
	10/28/2015 9:30	10/28/2015	9:30	28	27	78	7	13.5	41.8	4.78	6.9	
	10/28/2015 9:35	10/28/2015	9:35	32	31	78	11	22.2	89.1	10.19	17.1	
	10/28/2015 9:40	10/28/2015	9:40	32	30.5	78	11	22.2	110.8	12.68	29.8	
	10/28/2015 9:56	10/28/2015	9:56	32	30.5	79	11	22.1	354.4	40.55	70.3	
	10/28/2015 10:16	10/28/2015	10:16	32	29	80	12	24.1	462.7	52.93	123.3	
10/28/2015 10:18	10/28/2015	10:18		24				48.3	5.52	128.8		
SW-189 Event 2	11/24/2015 7:34	11/24/2015	7:34	26	27	51	4	7.7				128.8
	11/24/2015 7:57	11/24/2015	7:57	24	23	57	8	15.0	260.8	29.83	158.6	
	11/24/2015 7:58	11/24/2015	7:58	31	27	57	16	32.5	23.8	2.72	161.3	
	11/24/2015 8:43	11/24/2015	8:43	31	27	66	16	32.3	1458.1	166.81	328.1	
	11/24/2015 10:20	11/24/2015	10:20	31	28	70	15	30.1	3025.5	346.12	674.3	
	11/24/2015 10:21	11/24/2015	10:21	33	29	70	17	34.9	32.5	3.72	678.0	
	11/24/2015 11:27	11/24/2015	11:27	33	29	72	16.5	33.8	2266.7	259.31	937.3	
	11/24/2015 11:28	11/24/2015	11:28		24				33.8	3.87	941.1	
SW-189 Event 3	11/30/2015 12:24	11/30/2015	12:24	25.5	26	98	0	0.0				941.1
	11/30/2015 13:01	11/30/2015	13:01	24	23.5	95	5	9.0	166.8	19.08	960.2	
	11/30/2015 13:03	11/30/2015	13:03	28	28	95	11	20.8	29.9	3.42	963.6	
	11/30/2015 14:45	11/30/2015	14:45	28	27.5	86	11	21.0	2134.9	244.23	1207.9	
	11/30/2015 16:05	11/30/2015	16:05	28	27	80	12	23.1	1763.1	201.70	1409.6	
	11/30/2015 17:18	11/30/2015	17:18	27.5	26	74	12	23.1	1683.2	192.56	1602.1	
	11/30/2015 17:19	11/30/2015	17:19		22				23.1	2.64	1604.8	
SW-189 Event 4	12/2/2015 8:04	12/2/2015	8:04	28	29.5	70	8	15.5				1604.8
	12/2/2015 8:18	12/2/2015	8:18	26	24.5	71	12	22.7	267.6	30.61	1635.4	
	12/2/2015 9:42	12/2/2015	9:42	26	24.5	74	12	22.6	1904.2	217.84	1853.2	
	12/2/2015 11:42	12/2/2015	11:42	26	24.5	84	13	24.3	2815.6	322.10	2175.3	
	12/2/2015 12:58	12/2/2015	12:58	25	24	82	13	24.0	1836.2	210.06	2385.4	
	12/2/2015 14:27	12/2/2015	14:27	25	24	85	13.5	24.9	2176.8	249.02	2634.4	
	12/2/2015 15:41	12/2/2015	15:41	25	23.5	78	14	26.0	1882.0	215.30	2849.7	
	12/2/2015 17:00	12/2/2015	17:00	25	23.5	74	14	26.1	2056.2	235.23	3084.9	
	12/2/2015 17:01	12/2/2015	17:01		19				26.1	2.98	3087.9	
SW-189 Event 5	12/11/2015 7:47	12/11/2015	7:47	27	24	63	6	11.6				3087.9
	12/11/2015 8:18	12/11/2015	8:18	26.5	24	70	7	13.3	386.3	44.19	3132.1	
	12/11/2015 8:19	12/11/2015	8:19	31	28	70	16	32.1	22.7	2.60	3134.7	
	12/11/2015 9:22	12/11/2015	9:22	30.5	27.5	78	16	31.7	2010.9	230.05	3364.8	
	12/11/2015 10:19	12/11/2015	10:19	30	27	80	16	31.5	1800.5	205.97	3570.7	
	12/11/2015 11:05	12/11/2015	11:05	32	28	81	18	36.2	1555.5	177.94	3748.7	
	12/11/2015 11:06	12/11/2015	11:06		24				36.2	4.14	3752.8	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-189 Event 6	12/15/2015 8:11	12/15/2015	8:11	27	26	72	0	0.0			3752.8
	12/15/2015 8:32	12/15/2015	8:32	27	25	72	7	13.4	140.6	16.09	3768.9
	12/15/2015 8:33	12/15/2015	8:33	30	28	72	14	27.7	20.6	2.35	3771.3
	12/15/2015 10:01	12/15/2015	10:01	31	28.5	80	12	23.9	2271.0	259.81	4031.1
	12/15/2015 11:45	12/15/2015	11:45	31	28	83	12.5	24.8	2530.2	289.45	4320.5
	12/15/2015 13:38	12/15/2015	13:38	30.5	28	84	13.5	26.6	2903.5	332.16	4652.7
	12/15/2015 15:03	12/15/2015	15:03	30	27	83	14	27.5	2297.3	262.82	4915.5
	12/15/2015 16:10	12/15/2015	16:10	30	26.5	80	14	27.5	1842.2	210.74	5126.2
	12/15/2015 17:19	12/15/2015	17:19	29.5	26	74	14	27.5	1899.9	217.35	5343.6
	12/15/2015 17:21	12/15/2015	17:21		23.5				55.1	6.30	5349.9
SW-189 Event 7	1/19/2016 11:33	1/19/2016	11:33	27	27.5	62	<2	0.0			5349.9
	1/19/2016 12:01	1/19/2016	12:01	27	26.5	63	4	7.7	108.1	12.37	5362.3
	1/19/2016 12:02	1/19/2016	12:02	33	31	63	12	24.8	16.3	1.86	5364.1
	1/19/2016 14:01	1/19/2016	14:01	33	31.5	64	13.5	27.9	3133.9	358.52	5722.6
	1/19/2016 16:05	1/19/2016	16:05	32.5	30.5	64	14	28.7	3510.5	401.60	6124.2
	1/19/2016 17:04	1/19/2016	17:04	32.5	30.5	59	14	28.9	1700.4	194.53	6318.8
	1/19/2016 17:07	1/19/2016	17:07		26				86.7	9.92	6328.7
	1/28/2016 11:36	1/28/2016	11:36	29	27	65	7	13.8			6328.7
SW-189 Event 8	1/28/2016 12:06	1/28/2016	12:06	29	26.5	65	8.5	16.8	458.7	52.47	6381.1
	1/28/2016 12:07	1/28/2016	12:07	34.5	31.5	65	15	31.4	24.1	2.76	6383.9
	1/28/2016 13:57	1/28/2016	13:57	34.5	31	68	17	35.5	3681.7	421.19	6805.1
	1/28/2016 15:10	1/28/2016	15:10	34.5	30.5	64	18	37.8	2674.1	305.92	7111.0
	1/28/2016 17:05	1/28/2016	17:05	33	29	63	19.5	40.3	4487.8	513.41	7624.4
	1/28/2016 17:06	1/28/2016	17:06		26				40.3	4.61	7629.0
	2/4/2016 7:19	2/4/2016	7:19	30	29	73	7	13.9			7629.0
SW-189 Event 9	2/4/2016 7:35	2/4/2016	7:35	30	27	73	11	21.8	285.1	32.62	7661.6
	2/4/2016 7:36	2/4/2016	7:36	37	33	73	19	40.5	31.1	3.56	7665.2
	2/4/2016 11:05	2/4/2016	11:05	36.5	32	67	20	42.7	8692.4	994.41	8659.6
	2/4/2016 11:07	2/4/2016	11:07		27				85.4	9.76	8669.4
	Total CO ₂ Mass (lbs):										

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-190 Event 1	10/27/2015 11:42	10/27/2015	11:42	14	14	76	0	0.0				0
	10/27/2015 11:44	10/27/2015	11:44	18	18	76	0	0.0		0.0	0.00	0.0
	10/27/2015 11:48	10/27/2015	11:48	21	21	76	0	0.0		0.0	0.00	0.0
	10/27/2015 12:47	10/27/2015	12:47	21	21	75	0	0.0		0.0	0.00	0.0
	10/27/2015 12:52	10/27/2015	12:52	24	25	75	0	0.0		0.0	0.00	0.0
	10/27/2015 12:56	10/27/2015	12:56	26	27	75	0	0.0		0.0	0.00	0.0
	10/27/2015 13:00	10/27/2015	13:00	28	29	75	0	0.0		0.0	0.00	0.0
	10/27/2015 13:07	10/27/2015	13:07	30	31	75	0	0.0		0.0	0.00	0.0
	10/27/2015 13:10	10/27/2015	13:10	32	33	75	0	0.0		0.0	0.00	0.0
	10/27/2015 13:26	10/27/2015	13:26	32	33	75	<2	0.0		0.0	0.00	0.0
	10/27/2015 13:50	10/27/2015	13:50	32	32.5	76	4	8.1		96.9	11.08	11.1
	10/27/2015 14:40	10/27/2015	14:40	32	32	78	4.5	9.1		428.5	49.02	60.1
	10/27/2015 15:30	10/27/2015	15:30	32	32	79	5	10.1		478.3	54.71	114.8
	10/27/2015 16:12	10/27/2015	16:12	32	32	79	6	12.1		465.0	53.19	168.0
	10/27/2015 16:48	10/27/2015	16:48	32	31.5	80	6	12.1		434.6	49.71	217.7
10/27/2015 16:49	10/27/2015	16:49		24					12.1	1.38	219.1	
SW-190 Event 2	11/18/2015 8:18	11/18/2015	8:18	27	28	80	0	0.0				219.1
	11/18/2015 9:27	11/18/2015	9:27	28	28	80	0	0.0		0.0	0.00	219.1
	11/18/2015 9:28	11/18/2015	9:28	32	32	80	5.5	11.1		5.5	0.63	219.7
	11/18/2015 10:58	11/18/2015	10:58	34	32	81	5	10.3		959.4	109.76	329.5
	11/18/2015 12:06	11/18/2015	12:06	34	32	83	5.5	11.3		731.9	83.73	413.2
	11/18/2015 13:18	11/18/2015	13:18	34	32	80	6	12.3		849.2	97.15	510.4
	11/18/2015 15:15	11/18/2015	15:15	34	32	78	6	12.3		1443.4	165.12	675.5
	11/18/2015 16:47	11/18/2015	16:47	34	32	77	6	12.4		1136.6	130.03	805.5
	11/18/2015 16:48	11/18/2015	16:48		24					12.4	1.41	806.9
SW-190 Event 3	11/23/2015 8:03	11/23/2015	8:03	26	26	50	0	0.0				806.9
	11/23/2015 8:41	11/23/2015	8:41	26	25.5	57	0	0.0		0.0	0.00	806.9
	11/23/2015 8:42	11/23/2015	8:42	33	33.5	57	4	8.3		4.2	0.48	807.4
	11/23/2015 9:51	11/23/2015	9:51	34.5	32.5	66	4	8.4		575.8	65.87	873.3
	11/23/2015 12:03	11/23/2015	12:03	34	32	73	5	10.3		1235.0	141.29	1014.6
	11/23/2015 14:33	11/23/2015	14:33	34	32	74	6	12.4		1705.2	195.08	1209.6
	11/23/2015 15:56	11/23/2015	15:56	34	32	73	6	12.4		1029.4	117.76	1327.4
	11/23/2015 17:07	11/23/2015	17:07	33	31.5	65	6.5	13.4		916.4	104.84	1432.2
	11/23/2015 17:08	11/23/2015	17:08		26					13.4	1.53	1433.8
SW-190 Event 4	12/1/2015 8:01	12/1/2015	8:01	30	31	70	0	0.0				1433.8
	12/1/2015 8:12	12/1/2015	8:12	30	30	70	0	0.0		0.0	0.00	1433.8
	12/1/2015 8:13	12/1/2015	8:13	33	33	70	<2	0.0		0.0	0.00	1433.8
	12/1/2015 9:35	12/1/2015	9:35	34	32	74	4.5	9.3		381.2	43.61	1477.4
	12/1/2015 11:11	12/1/2015	11:11	34	32	86	5.5	11.2		985.4	112.73	1590.1
	12/1/2015 12:24	12/1/2015	12:24	34	32	87	6	12.2		856.9	98.02	1688.1
	12/1/2015 14:10	12/1/2015	14:10	34	32	86	6.5	13.3		1352.5	154.72	1842.9
	12/1/2015 15:40	12/1/2015	15:40	34	32	84	7	14.3		1242.0	142.08	1984.9
	12/1/2015 16:54	12/1/2015	16:54	33	32	77	7	14.3		1057.9	121.03	2106.0
	12/1/2015 16:55	12/1/2015	16:55		25.5					14.3	1.63	2107.6

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-190 Event 5	12/8/2015 8:30	12/8/2015	8:30	31	30	64	0	0.0				2107.6
	12/8/2015 9:02	12/8/2015	9:02	30	28	70	<2	0.0		0.0	0.00	2107.6
	12/8/2015 9:03	12/8/2015	9:03	34	32.5	70	6	12.4		6.2	0.71	2108.3
	12/8/2015 10:36	12/8/2015	10:36	33.5	32	82	6	12.2		1147.7	131.29	2239.6
	12/8/2015 11:49	12/8/2015	11:49	33.5	31.5	83	7	14.3		967.2	110.65	2350.3
	12/8/2015 11:50	12/8/2015	11:50	35	33	83	10	20.7		17.5	2.00	2352.3
	12/8/2015 12:50	12/8/2015	12:50	35	33	83	10	20.7		1241.7	142.05	2494.3
	12/8/2015 14:19	12/8/2015	14:19	35	33	83	10	20.7		1841.8	210.70	2705.0
	12/8/2015 15:51	12/8/2015	15:51	35	33	79	10	20.8		1907.5	218.22	2923.2
	12/8/2015 17:05	12/8/2015	17:05	35	33	70	10	21.0		1544.0	176.64	3099.9
	12/8/2015 17:07	12/8/2015	17:07		27					41.9	4.79	3104.7
	SW-190 Event 6	12/10/2015 8:08	12/10/2015	8:08	29	29	65	0	0.0			
12/10/2015 8:34		12/10/2015	8:34	28.5	26.5	72	0	0.0		0.0	0.00	3104.7
12/10/2015 8:35		12/10/2015	8:35	34	33	72	<2	0.0		0.0	0.00	3104.7
12/10/2015 9:31		12/10/2015	9:31	34	32	81	4.5	9.2		258.6	29.58	3134.2
12/10/2015 10:39		12/10/2015	10:39	33.5	31.5	83	6	12.2		729.6	83.47	3217.7
12/10/2015 11:42		12/10/2015	11:42	33	30.5	83	6	12.2		768.1	87.88	3305.6
12/10/2015 12:29		12/10/2015	12:29	33	30.5	83	6.5	13.2		595.4	68.11	3373.7
12/10/2015 13:24		12/10/2015	13:24	32.5	30	84	6.5	13.1		722.3	82.63	3456.3
12/10/2015 14:41		12/10/2015	14:41	32.5	30	84	6.5	13.1		1008.0	115.32	3571.6
12/10/2015 15:43		12/10/2015	15:43	32	30	83	7	14.0		840.9	96.20	3667.8
12/10/2015 17:01		12/10/2015	17:01	32	29	71	7	14.2		1101.2	125.97	3793.8
12/11/2015 7:44		12/11/2015	7:44	30.5	27.5	63	12	24.1		16922.3	1935.92	5729.7
12/11/2015 7:45		12/11/2015	7:45		26					24.1	2.76	5732.5
SW-190 Event 7		12/16/2015 8:00	12/16/2015	8:00	26	26	70	0	0.0			
	12/16/2015 8:33	12/16/2015	8:33	26	25	71	3	5.7		93.6	10.71	5743.2
	12/16/2015 8:34	12/16/2015	8:34	33	32.5	71	7	14.4		10.0	1.15	5744.3
	12/16/2015 9:37	12/16/2015	9:37	33	31	74	8.5	17.4		999.5	114.34	5858.7
	12/16/2015 11:26	12/16/2015	11:26	32.5	30	76	8.5	17.3		1887.2	215.90	6074.6
	12/16/2015 12:40	12/16/2015	12:40	32	29.5	78	8.5	17.1		1271.9	145.51	6220.1
	12/16/2015 14:45	12/16/2015	14:45	32	29	76	9	18.2		2205.8	252.34	6472.4
	12/16/2015 16:03	12/16/2015	16:03	33	30.5	75	10.5	21.4		1544.9	176.74	6649.2
	12/16/2015 17:15	12/16/2015	17:15	32	30	74	11.5	23.3		1609.4	184.11	6833.3
	12/16/2015 17:16	12/16/2015	17:16		21					23.3	2.66	6835.9
	SW-190 Event 8	12/19/2015 11:05	12/19/2015	11:05	28	27	69	0	0.0			
12/19/2015 11:34		12/19/2015	11:34	27	24.5	70	4	7.7		111.2	12.72	6848.7
12/19/2015 11:35		12/19/2015	11:35	34	31.5	70	10	20.7		14.2	1.63	6850.3
12/19/2015 12:56		12/19/2015	12:56	34	30.5	71	11	22.8		1763.1	201.70	7052.0
12/19/2015 13:41		12/19/2015	13:41	34	31	72	11	22.8		1025.2	117.28	7169.3
12/19/2015 14:49		12/19/2015	14:49	33.5	30.5	73	11.5	23.7		1578.6	180.59	7349.9
12/19/2015 15:46		12/19/2015	15:46	33	30.5	70	11	22.6		1317.7	150.74	7500.6
12/19/2015 17:14		12/19/2015	17:14	34	30.5	64	11	23.0		2003.2	229.16	7729.8
12/19/2015 17:15		12/19/2015	17:15		25.5					23.0	2.63	7732.4
SW-190 Event 9	12/22/2015 7:47	12/22/2015	7:47	29	27	74	0	0.0				7732.4
	12/22/2015 8:14	12/22/2015	8:14	28	26	74	4	7.7		104.4	11.94	7744.3
	12/22/2015 8:15	12/22/2015	8:15	33	31.5	74	9	18.4		13.1	1.49	7745.8
	12/22/2015 10:19	12/22/2015	10:19	32	30.5	76	9.5	19.2		2329.7	266.52	8012.3
	12/22/2015 11:07	12/22/2015	11:07	32	30.5	77	9.5	19.2		920.0	105.25	8117.6
	12/22/2015 11:08	12/22/2015	11:08		23.5					19.2	2.19	8119.8
Total CO ₂ Mass (lbs):												8119.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-191 Event 1	10/27/2015 13:24	10/27/2015	13:24	22	22	78	0	0.0				0
	10/27/2015 13:29	10/27/2015	13:29	24	25	78	0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:34	10/27/2015	13:34	26	26	78	0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:39	10/27/2015	13:39	28	29	78	0	0.0	0.0	0.00	0.0	0.0
	10/27/2015 13:46	10/27/2015	13:46	30	31	76	0	0.0	0.0	0.00	0.00	0.0
	10/27/2015 13:53	10/27/2015	13:53	32	32	76	3	6.1	21.2	2.42	2.4	2.4
	10/27/2015 14:00	10/27/2015	14:00	34	34	76	5	10.3	57.3	6.55	9.0	9.0
	10/27/2015 14:54	10/27/2015	14:54	34	33	78	6	12.3	611.8	69.99	79.0	79.0
	10/27/2015 15:38	10/27/2015	15:38	34	33	79	6	12.3	543.1	62.13	141.1	141.1
	10/27/2015 16:20	10/27/2015	16:20	34	33	79	6	12.3	518.1	59.27	200.4	200.4
	10/27/2015 17:15	10/27/2015	17:15	34	33	78	7	14.4	735.4	84.13	284.5	284.5
10/27/2015 17:16	10/27/2015	17:16		25				14.4	1.65	286.1	286.1	
SW-191 Event 2	11/18/2015 8:30	11/18/2015	8:30	29	29.5	81	0	0.0				286.1
	11/18/2015 9:29	11/18/2015	9:29	29	28.5	80	0	0.0	0.0	0.00	0.00	286.1
	11/18/2015 9:30	11/18/2015	9:30	34	34.5	80	4.5	9.2	4.6	0.53	286.7	286.7
	11/18/2015 11:01	11/18/2015	11:01	34	34	82	4.5	9.2	840.3	96.14	382.8	382.8
	11/18/2015 12:10	11/18/2015	12:10	34	34	83	4.5	9.2	636.3	72.79	455.6	455.6
	11/18/2015 13:19	11/18/2015	13:19	34	34	80	4.5	9.2	636.9	72.86	528.5	528.5
	11/18/2015 15:15	11/18/2015	15:15	34	34	78	5	10.3	1132.9	129.61	658.1	658.1
	11/18/2015 16:42	11/18/2015	16:42	34	34	78	5	10.3	895.2	102.42	760.5	760.5
	11/18/2015 16:43	11/18/2015	16:43		26				10.3	1.18	761.7	761.7
SW-191 Event 3	11/21/2015 12:33	11/21/2015	12:33	27	27	80	0	0.0				761.7
	11/21/2015 13:00	11/21/2015	13:00	26	25.5	81	0	0.0	0.0	0.00	0.00	761.7
	11/21/2015 13:01	11/21/2015	13:01	34	33.5	81	4	8.2	4.1	0.47	762.1	762.1
	11/21/2015 14:42	11/21/2015	14:42	34	33	78	6	12.3	1038.1	118.76	880.9	880.9
	11/21/2015 15:52	11/21/2015	15:52	34	32.5	77	6	12.4	864.8	98.93	979.8	979.8
	11/21/2015 17:17	11/21/2015	17:17	34	32	74	7	14.5	1140.0	130.41	1110.2	1110.2
	11/21/2015 17:18	11/21/2015	17:18		25				14.5	1.65	1111.9	1111.9
SW-191 Event 4	11/24/2015 7:33	11/24/2015	7:33	26	26	51	0	0.0				1111.9
	11/24/2015 7:51	11/24/2015	7:51	26	26	59	0	0.0	0.0	0.00	0.00	1111.9
	11/24/2015 7:52	11/24/2015	7:52	34	33	59	3.5	7.3	3.7	0.42	1112.3	1112.3
	11/24/2015 8:40	11/24/2015	8:40	34	32.5	68	6	12.5	475.4	54.39	1166.7	1166.7
	11/24/2015 10:18	11/24/2015	10:18	34	32.5	72	6	12.4	1219.6	139.52	1306.2	1306.2
	11/24/2015 11:18	11/24/2015	11:18	34	33	73	6	12.4	744.9	85.21	1391.4	1391.4
	11/24/2015 11:19	11/24/2015	11:19		26				12.4	1.42	1392.8	1392.8
SW-191 Event 5	12/1/2015 7:57	12/1/2015	7:57	30	31	70	0	0.0				1392.8
	12/1/2015 8:08	12/1/2015	8:08	30	29.5	70	0	0.0	0.0	0.00	0.00	1392.8
	12/1/2015 8:10	12/1/2015	8:10	34	34	70	<2	0.0	0.0	0.00	0.00	1392.8
	12/1/2015 9:39	12/1/2015	9:39	34	33	74	4	8.3	367.8	42.07	1434.9	1434.9
	12/1/2015 11:15	12/1/2015	11:15	34	33	82	5	10.3	888.7	101.67	1536.6	1536.6
	12/1/2015 12:32	12/1/2015	12:32	34	32.5	83	5.5	11.3	828.4	94.76	1631.3	1631.3
	12/1/2015 14:13	12/1/2015	14:13	34	32.5	84	6	12.3	1188.9	136.01	1767.4	1767.4
	12/1/2015 15:44	12/1/2015	15:44	34	32.5	82	6	12.3	1118.3	127.94	1895.3	1895.3
	12/1/2015 16:49	12/1/2015	16:49	33	32	77	6	12.2	797.3	91.21	1986.5	1986.5
	12/1/2015 16:52	12/1/2015	16:52		27.5				36.7	4.20	1990.7	1990.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-191 Event 6	12/3/2015 7:52	12/3/2015	7:52	32	34	63	0	0.0				1990.7
	12/3/2015 8:06	12/3/2015	8:06	31	32	66	3	6.0	42.3	4.84	1995.5	
	12/3/2015 8:07	12/3/2015	8:07	33	34.5	66	7	14.4	10.2	1.17	1996.7	
	12/3/2015 10:40	12/3/2015	10:40	33	34	70	8	16.4	2359.4	269.92	2266.6	
	12/3/2015 11:59	12/3/2015	11:59	33	34	74	8	16.4	1294.6	148.10	2414.7	
	12/3/2015 13:44	12/3/2015	13:44	32.5	33.5	74	8	16.3	1712.7	195.93	2610.7	
	12/3/2015 14:56	12/3/2015	14:56	32.5	33.5	72	8	16.3	1172.4	134.13	2744.8	
	12/3/2015 15:52	12/3/2015	15:52	32.5	33	71	8	16.3	913.2	104.47	2849.3	
	12/3/2015 17:00	12/3/2015	17:00	33	33	70	9	18.5	1182.7	135.31	2984.6	
	12/3/2015 17:01	12/3/2015	17:01		27.5				18.5	2.11	2986.7	
SW-191 Event 7	12/8/2015 8:09	12/8/2015	8:09	34	35	60	0	0.0				2986.7
	12/8/2015 8:34	12/8/2015	8:34	32	32	60	4	8.2	102.5	11.73	2998.4	
	12/8/2015 9:28	12/8/2015	9:28	32	32	75	5	10.1	494.2	56.54	3055.0	
	12/8/2015 10:30	12/8/2015	10:30	32	32	80	5	10.1	624.9	71.49	3126.4	
	12/8/2015 11:56	12/8/2015	11:56	31	31	80	8	15.9	1116.5	127.73	3254.2	
	12/8/2015 11:57	12/8/2015	11:57	34	34	80	14	28.8	22.3	2.56	3256.7	
	12/8/2015 13:10	12/8/2015	13:10	34	34	82	14	28.7	2097.3	239.93	3496.7	
	12/8/2015 15:12	12/8/2015	15:12	34	34	78	14	28.8	3508.4	401.36	3898.0	
	12/8/2015 17:13	12/8/2015	17:13	34	34	70	14	29.0	3499.9	400.39	4298.4	
	12/8/2015 17:14	12/8/2015	17:14		27				29.0	3.32	4301.7	
SW-191 Event 8	12/10/2015 7:53	12/10/2015	7:53	39	39	52	0	0.0				4301.7
	12/10/2015 8:11	12/10/2015	8:11	36	36	52	5	10.8	97.0	11.10	4312.8	
	12/10/2015 9:43	12/10/2015	9:43	35	35	72	12	25.1	1650.3	188.79	4501.6	
	12/10/2015 10:47	12/10/2015	10:47	35	35	76	12	25.0	1603.2	183.40	4685.0	
	12/10/2015 11:42	12/10/2015	11:42	34	34	78	15	30.9	1536.5	175.77	4860.8	
	12/10/2015 13:27	12/10/2015	13:27	34	34	78	15	30.9	3241.4	370.82	5231.6	
	12/10/2015 15:00	12/10/2015	15:00	34	34	78	15	30.9	2871.0	328.44	5560.0	
	12/10/2015 17:00	12/10/2015	17:00		26				3704.5	423.79	5983.8	
SW-191 Event 9	12/15/2015 7:59	12/15/2015	7:59	28	28	69	0	0.0				5983.8
	12/15/2015 8:27	12/15/2015	8:27	28	27	70	0	0.0	0.0	0.00	5983.8	
	12/15/2015 8:29	12/15/2015	8:29	33	33	70	6	12.3	12.3	1.41	5985.2	
	12/15/2015 10:04	12/15/2015	10:04	31	31	80	10	19.9	1529.7	174.99	6160.2	
	12/15/2015 11:46	12/15/2015	11:46	31	30.5	82	11	21.8	2128.0	243.44	6403.7	
	12/15/2015 13:40	12/15/2015	13:40	30.5	30	82	11.5	22.7	2538.7	290.42	6694.1	
	12/15/2015 15:06	12/15/2015	15:06	30	29.5	83	11.5	22.6	1946.0	222.62	6916.7	
	12/15/2015 16:07	12/15/2015	16:07	32	29.5	81	12	24.1	1423.1	162.81	7079.5	
	12/15/2015 17:14	12/15/2015	17:14	32	29.5	76	12	24.2	1619.1	185.22	7264.8	
12/15/2015 17:15	12/15/2015	17:15		25				24.2	2.77	7267.5		
SW-191 Event 10	12/17/2015 7:43	12/17/2015	7:43	28	28	74	0	0.0				7267.5
	12/17/2015 8:18	12/17/2015	8:18	26	25	77	4	7.5	131.7	15.06	7282.6	
	12/17/2015 8:20	12/17/2015	8:20	33	31	77	14	28.5	36.1	4.13	7286.7	
	12/17/2015 9:37	12/17/2015	9:37	31	32	80	13.5	26.9	2132.5	243.95	7530.7	
	12/17/2015 10:46	12/17/2015	10:46	31	32	81	13.5	26.8	1851.8	211.84	7742.5	
	12/17/2015 11:48	12/17/2015	11:48	34	30	80	14	28.8	1723.0	197.12	7939.6	
	12/17/2015 12:50	12/17/2015	12:50	34	30	82	14	28.7	1781.2	203.77	8143.4	
	12/17/2015 13:40	12/17/2015	13:40	34	30.5	84	13.5	27.6	1408.2	161.09	8304.5	
	12/17/2015 14:30	12/17/2015	14:30	34	29.5	81	14	28.7	1408.9	161.17	8465.7	
	12/17/2015 16:02	12/17/2015	16:02	31	30	769	14	18.4	2166.3	247.83	8713.5	
12/17/2015 16:03	12/17/2015	16:03		25				18.4	2.10	8715.6		

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-191 Event 11	12/21/2015 7:41	12/21/2015	7:41	28	30	64	0	0.0				8715.6
	12/21/2015 8:09	12/21/2015	8:09	26.5	27	68	5	9.5	133.6	15.29		8730.9
	12/21/2015 8:10	12/21/2015	8:10	34	34	68	10	20.8	15.2	1.73		8732.6
	12/21/2015 9:30	12/21/2015	9:30	33	33	73	13	26.6	1895.4	216.83		8949.5
	12/21/2015 11:47	12/21/2015	11:47	33	33	79	14	28.5	3773.4	431.68		9381.1
	12/21/2015 13:03	12/21/2015	13:03	35	32.5	80	13.5	28.0	2147.0	245.62		9626.8
	12/21/2015 14:10	12/21/2015	14:10	35	32	76	13	27.1	1845.9	211.17		9837.9
	12/21/2015 15:10	12/21/2015	15:10	34.5	32	76	13	26.9	1620.9	185.43		10023.4
	12/21/2015 16:04	12/21/2015	16:04	34	31.5	74	12.5	25.8	1424.8	163.00		10186.4
	12/21/2015 17:11	12/21/2015	17:11	34	33	72	13	26.9	1766.7	202.11		10388.5
	12/21/2015 17:12	12/21/2015	17:12		28.5				26.9	3.08		10391.5
SW-191 Event 12	1/5/2016 13:00	1/5/2016	13:00	28	30	63	0	0.0				10391.5
	1/5/2016 13:18	1/5/2016	13:18	28	29	61	0	0.0	0.0	0.00		10391.5
	1/5/2016 13:19	1/5/2016	13:19	33	34	61	4	8.3	4.1	0.47		10392.0
	1/5/2016 14:19	1/5/2016	14:19	33	34	60	6	12.4	621.6	71.11		10463.1
	1/5/2016 15:44	1/5/2016	15:44	33	34	58	7.5	15.6	1190.6	136.20		10599.3
	1/5/2016 17:11	1/5/2016	17:11	32	34	56	8	16.5	1394.1	159.48		10758.8
	1/5/2016 17:13	1/5/2016	17:13		28				32.9	3.77		10762.6
	SW-191 Event 13	1/7/2016 7:51	1/7/2016	7:51	27	27.5	57	0	0.0			
1/7/2016 8:23		1/7/2016	8:23	26	26.5	58	0	0.0	0.0	0.00		10762.6
1/7/2016 8:25		1/7/2016	8:25	34	34.5	58	8	16.8	16.8	1.92		10764.5
1/7/2016 10:18		1/7/2016	10:18	35	34	65	10	21.1	2138.6	244.66		11009.2
1/7/2016 11:40		1/7/2016	11:40	34	34	67	9.5	19.8	1673.7	191.47		11200.6
1/7/2016 12:38		1/7/2016	12:38	34	34	69	9.5	19.7	1145.1	131.00		11331.6
1/7/2016 12:39		1/7/2016	12:39		29				19.7	2.26		11333.9
SW-191 Event 14	1/12/2016 7:46	1/12/2016	7:46	28	28.5	43	0	0.0				11333.9
	1/12/2016 8:13	1/12/2016	8:13	27	27.5	48	4	7.8	105.8	12.11		11346.0
	1/12/2016 8:15	1/12/2016	8:15	34	34	48	9.5	20.1	28.0	3.20		11349.2
	1/12/2016 9:55	1/12/2016	9:55	34	34	67	11.5	23.9	2203.3	252.06		11601.2
	1/12/2016 11:18	1/12/2016	11:18	34	33.5	68	12	24.9	2027.7	231.97		11833.2
	1/12/2016 12:31	1/12/2016	12:31	34	33.5	67	12	25.0	1821.4	208.37		12041.6
	1/12/2016 14:40	1/12/2016	14:40	34	33	68	12.5	26.0	3285.6	375.88		12417.5
	1/12/2016 14:42	1/12/2016	14:42		27				52.0	5.94		12423.4
SW-191 Event 15	1/14/2016 7:43	1/14/2016	7:43	26	27	46	0	0.0				12423.4
	1/14/2016 8:05	1/14/2016	8:05	25.5	26	51	4	7.7	84.4	9.65		12433.1
	1/14/2016 8:06	1/14/2016	8:06	34	33.5	51	10.5	22.2	14.9	1.71		12434.8
	1/14/2016 8:16	1/14/2016	8:16		18				222.0	25.39		12460.2
Total CO ₂ Mass (lbs):											12460.2	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-192 Event 1	10/21/2015 11:25	10/21/2015	11:25	11	12	88	0	0.0				0
	10/21/2015 11:30	10/21/2015	11:30	15	15	88	0	0.0		0.0	0.00	0.0
	10/21/2015 11:35	10/21/2015	11:35	18	19	88	0	0.0		0.0	0.00	0.0
	10/21/2015 11:42	10/21/2015	11:42	20	21	88	0	0.0		0.0	0.00	0.0
	10/21/2015 11:47	10/21/2015	11:47	22	23	88	0	0.0		0.0	0.00	0.0
	10/21/2015 11:50	10/21/2015	11:50	24	25	88	0	0.0		0.0	0.00	0.0
	10/21/2015 11:54	10/21/2015	11:54	26	27	88	0	0.0		0.0	0.00	0.0
	10/21/2015 12:00	10/21/2015	12:00	28	29	88	0	0.0		0.0	0.00	0.0
	10/21/2015 12:03	10/21/2015	12:03	30	30.5	88	0	0.0		0.0	0.00	0.0
	10/21/2015 12:07	10/21/2015	12:07	32	32	88	0	0.0		0.0	0.00	0.0
	10/21/2015 13:00	10/21/2015	13:00	31	31	86	0	0.0		0.0	0.00	0.0
	10/21/2015 13:05	10/21/2015	13:05	33	33	86	4	8.1		20.2	2.31	2.3
	10/21/2015 14:00	10/21/2015	14:00	32	32	86	4.5	9.0		469.7	53.74	56.0
	10/21/2015 14:07	10/21/2015	14:07	33	33	86	4.5	9.1		63.3	7.24	63.3
	10/21/2015 14:42	10/21/2015	14:42	33	32.5	86	6.5	13.1		389.0	44.51	107.8
	10/21/2015 15:10	10/21/2015	15:10	33	32.5	86	6.5	13.1		367.8	42.08	149.9
	10/21/2015 15:33	10/21/2015	15:33	33	32.5	86	6.5	13.1		302.1	34.56	184.4
	10/21/2015 15:58	10/21/2015	15:58	33	32.5	85	6.5	13.1		328.6	37.59	222.0
10/21/2015 16:27	10/21/2015	16:27	33	32.5	85	6.5	13.1		381.3	43.62	265.7	
10/21/2015 16:53	10/21/2015	16:53	33	32.5	83	6.5	13.2		342.2	39.15	304.8	
10/21/2015 17:03	10/21/2015	17:03	33	32.5	82	6.5	13.2		131.8	15.08	319.9	
10/21/2015 17:05	10/21/2015	17:05		21					26.4	3.02	322.9	
SW-192 Event 2	11/16/2015 8:06	11/16/2015	8:06	29	29	71	0	0.0				322.9
	11/16/2015 8:50	11/16/2015	8:50	29	29	80	0	0.0		0.0	0.00	322.9
	11/16/2015 8:54	11/16/2015	8:54	33	33	80	3	6.1		12.2	1.40	324.3
	11/16/2015 10:14	11/16/2015	10:14	33	33	84	5	10.1		648.9	74.23	398.5
	11/16/2015 11:01	11/16/2015	11:01	33	33	86	5	10.1		475.4	54.38	452.9
	11/16/2015 12:22	11/16/2015	12:22	31	31	86	6	11.9		889.8	101.79	554.7
	11/16/2015 14:57	11/16/2015	14:57	31	31	83	9	17.8		2302.9	263.45	818.2
	11/16/2015 14:59	11/16/2015	14:59	33	32.5	83	10	20.3		38.1	4.36	822.5
	11/16/2015 17:38	11/16/2015	17:38	33	31	73	12	24.6		3563.5	407.67	1230.2
	11/16/2015 17:39	11/16/2015	17:39		25					24.6	2.81	1233.0
SW-192 Event 3	11/19/2015 7:57	11/19/2015	7:57	27	26.5	78	0	0.0				1233.0
	11/19/2015 8:22	11/19/2015	8:22	26	25.5	78	0	0.0		0.0	0.00	1233.0
	11/19/2015 8:23	11/19/2015	8:23	33	34	78	4	8.1		4.1	0.47	1233.5
	11/19/2015 9:36	11/19/2015	9:36	33	32.5	78	8	16.3		892.0	102.04	1335.5
	11/19/2015 11:03	11/19/2015	11:03	33	32	79	10	20.3		1593.7	182.32	1517.8
	11/19/2015 12:29	11/19/2015	12:29	33	31	80	11	22.4		1836.3	210.07	1727.9
	11/19/2015 13:21	11/19/2015	13:21	31	30.5	80	12	23.9		1201.9	137.49	1865.4
	11/19/2015 13:22	11/19/2015	13:22	33	31.5	80	13	26.4		25.1	2.88	1868.3
	11/19/2015 15:46	11/19/2015	15:46	34	31	78	14	28.8		3977.0	454.97	2323.2
11/19/2015 15:47	11/19/2015	15:47		26					28.8	3.30	2326.5	
SW-192 Event 4	11/30/2015 12:30	11/30/2015	12:30	27	29	88	0	0.0				2326.5
	11/30/2015 13:07	11/30/2015	13:07	26	27	86	3	5.6		103.5	11.84	2338.4
	11/30/2015 13:10	11/30/2015	13:10	30	31	86	7	13.7		28.9	3.31	2341.7
	11/30/2015 14:48	11/30/2015	14:48	30	30.5	84	10	19.6		1630.8	186.56	2528.2
	11/30/2015 16:07	11/30/2015	16:07	30	30	80	11	21.6		1628.5	186.30	2714.5
	11/30/2015 17:19	11/30/2015	17:19	32	29	74	11.5	23.3		1616.2	184.89	2899.4
11/30/2015 17:20	11/30/2015	17:20		23.5					23.3	2.66	2902.1	
SW-192 Event 5	12/4/2015 8:05	12/4/2015	8:05	27	27.5	60	<2	0.0				2902.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	12/4/2015 8:20	12/4/2015	8:20	26	27	63	6	11.4		85.8	9.82	2911.9
	12/4/2015 8:21	12/4/2015	8:21	30	31	63	11	22.0		16.7	1.91	2913.8
	12/4/2015 9:40	12/4/2015	9:40	30	29	70	14	27.8		1967.0	225.02	3138.8
	12/4/2015 10:57	12/4/2015	10:57	29	27.5	72	14	27.4		2126.4	243.27	3382.1
	12/4/2015 12:23	12/4/2015	12:23	30	29	72	16	31.7		2543.1	290.93	3673.0
	12/4/2015 12:24	12/4/2015	12:24		23					31.7	3.63	3676.6
<u>SW-192 Event 6</u>	12/7/2015 8:10	12/7/2015	8:10	38	34	60	0	0.0				3676.6
	12/7/2015 8:44	12/7/2015	8:44	32	32	60	12	24.6		418.3	47.86	3724.5
	12/7/2015 9:39	12/7/2015	9:39	32	32	60	12	24.6		1353.4	154.83	3879.3
	12/7/2015 10:55	12/7/2015	10:55	30	30	70	14	27.8		1991.5	227.83	4107.2
	12/7/2015 12:00	12/7/2015	12:00	30	30	74	14	27.7		1803.6	206.33	4313.5
	12/7/2015 12:51	12/7/2015	12:51	30	30	74	14	27.7		1412.4	161.58	4475.1
	12/7/2015 14:12	12/7/2015	14:12	30	30	78	15	29.6		2318.7	265.26	4740.3
	12/7/2015 16:14	12/7/2015	16:14	29	29	78	16	31.2		3704.3	423.77	5164.1
	12/7/2015 17:00	12/7/2015	17:00		22					1433.8	164.02	5328.1
<u>SW-192 Event 7</u>	12/9/2015 7:50	12/9/2015	7:50	38	36	52	0	0.0				5328.1
	12/9/2015 8:09	12/9/2015	8:09	34	33	62	14	29.3		278.0	31.81	5359.9
	12/9/2015 9:29	12/9/2015	9:29	32	32	72	16	32.4		2467.7	282.30	5642.2
	12/9/2015 11:19	12/9/2015	11:19	30	30	78	18	35.5		3734.1	427.18	6069.4
	12/9/2015 12:46	12/9/2015	12:46	29	29	80	20	38.9		3234.5	370.02	6439.4
	12/9/2015 14:55	12/9/2015	14:55	29	29	78	20	39.0		5021.1	574.42	7013.8
	12/9/2015 16:20	12/9/2015	16:20	29	29	72	20	39.2		3321.3	379.95	7393.8
	12/9/2015 16:46	12/9/2015	16:46		22					1018.9	116.56	7510.4
<u>SW-192 Event 8</u>	1/6/2016 11:40	1/6/2016	11:40	30	29	66	4	8.0				7510.4
	1/6/2016 11:44	1/6/2016	11:44	29	27	66	5.5	10.8		37.6	4.30	7514.7
	1/6/2016 11:45	1/6/2016	11:45	34	33	66	9	18.7		14.8	1.69	7516.4
	1/6/2016 13:38	1/6/2016	13:38	33	30.5	66	14.5	29.9		2746.9	314.24	7830.6
	1/6/2016 16:57	1/6/2016	16:57	34	31	64	18	37.6		6709.5	767.57	8598.2
	1/6/2016 17:00	1/6/2016	17:00		25					112.7	12.89	8611.1
Total CO ₂ Mass (lbs):												8611.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-193 Event 1	10/20/2015 11:41	10/20/2015	11:41	12	15	82	0	0.0				0
	10/20/2015 11:57	10/20/2015	11:57	12	15	84	0	0.0	0.0	0.00	0.0	
	10/20/2015 11:58	10/20/2015	11:58	20	24	84	0	0.0	0.0	0.00	0.0	
	10/20/2015 14:15	10/20/2015	14:15	20	24	85	0	0.0	0.0	0.00	0.0	
	10/20/2015 14:16	10/20/2015	14:16	26	29	85	0	0.0	0.0	0.00	0.0	
	10/20/2015 15:24	10/20/2015	15:24	26	29	84	0	0.0	0.0	0.00	0.0	
	10/20/2015 15:25	10/20/2015	15:25	30	33	84	5	9.8	4.9	0.56	0.6	
	10/20/2015 16:32	10/20/2015	16:32	30	33	82	5	9.8	657.0	75.16	75.7	
	10/20/2015 16:33	10/20/2015	16:33	35	36	82	6.5	13.5	11.6	1.33	77.0	
	10/20/2015 17:20	10/20/2015	17:20	35	36	78	7.5	15.6	682.9	78.12	155.2	
10/20/2015 17:21	10/20/2015	17:21		25				15.6	1.78	157.0		
SW-193 Event 2	12/1/2015 8:03	12/1/2015	8:03	30	32	70	0	0.0				157.0
	12/1/2015 8:14	12/1/2015	8:14	30	30	70	<2	0.0	0.0	0.00	157.0	
	12/1/2015 8:15	12/1/2015	8:15	34	34.5	70	3	6.2	3.1	0.36	157.3	
	12/1/2015 8:24	12/1/2015	8:24	25	25	70	<2	0.0	28.0	3.20	160.5	
	12/1/2015 8:26	12/1/2015	8:26	22	23.5	70	<2	0.0	0.0	0.00	160.5	
	12/1/2015 9:36	12/1/2015	9:36	23	23.5	74	0	0.0	0.0	0.00	160.5	
	12/1/2015 11:13	12/1/2015	11:13	23	23.5	86	0	0.0	0.0	0.00	160.5	
	12/1/2015 12:24	12/1/2015	12:24	23	23.5	87	0	0.0	0.0	0.00	160.5	
	12/1/2015 12:28	12/1/2015	12:28	25	25	87	0	0.0	0.0	0.00	160.5	
	12/1/2015 14:11	12/1/2015	14:11	25	25	86	0	0.0	0.0	0.00	160.5	
	12/1/2015 15:42	12/1/2015	15:42	25	25	84	0	0.0	0.0	0.00	160.5	
	12/1/2015 17:00	12/1/2015	17:00	25	25	76	0	0.0	0.0	0.00	160.5	
	12/1/2015 17:01	12/1/2015	17:01		18				0.0	0.00	160.5	
	SW-193 Event 3	12/14/2015 8:06	12/14/2015	8:06	26	27	74	0	0.0			
12/14/2015 8:37		12/14/2015	8:37	27	25	79	4	7.6	117.8	13.48	174.0	
12/14/2015 8:40		12/14/2015	8:40	36	35	79	6.5	13.6	31.9	3.65	177.6	
12/14/2015 9:02		12/14/2015	9:02	37	35	79	5	10.6	266.6	30.50	208.1	
12/14/2015 9:03		12/14/2015	9:03	28	26	79	0	0.0	5.3	0.61	208.7	
12/14/2015 10:22		12/14/2015	10:22	28	25.5	79	<2	0.0	0.0	0.00	208.7	
12/14/2015 12:13		12/14/2015	12:13	27.5	25	80	<2	0.0	0.0	0.00	208.7	
12/14/2015 13:50		12/14/2015	13:50	27.5	25	81	3	5.7	277.7	31.77	240.5	
12/14/2015 15:01		12/14/2015	15:01	26	24	81	3	5.6	402.8	46.08	286.6	
12/14/2015 15:58		12/14/2015	15:58	26	25	80	3	5.6	320.6	36.67	323.3	
12/14/2015 17:16		12/14/2015	17:16	24	24	78	3.5	6.4	469.5	53.71	377.0	
12/15/2015 8:07		12/15/2015	8:07	24	23.5	71	3.5	6.5	5731.8	655.71	1032.7	
12/15/2015 8:08		12/15/2015	8:08		16				6.5	0.74	1033.4	
SW-193 Event 4	1/15/2016 7:27	1/15/2016	7:27	27	27.5	67	0	0.0				1033.4
	1/15/2016 7:46	1/15/2016	7:46	26	27	67	0	0.0	0.0	0.00	1033.4	
	1/15/2016 7:47	1/15/2016	7:47	35	36	67	0	0.0	0.0	0.00	1033.4	
	1/15/2016 8:49	1/15/2016	8:49	34.5	35	67	0	0.0	0.0	0.00	1033.4	
	1/15/2016 10:31	1/15/2016	10:31	34	34.5	67	<2	0.0	0.0	0.00	1033.4	
	1/15/2016 11:28	1/15/2016	11:28	34	34	68	3	6.2	177.7	20.33	1053.8	
	1/15/2016 11:30	1/15/2016	11:30		19				12.5	1.43	1055.2	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-193 Event 5	1/18/2016 8:13	1/18/2016	8:13	26	26	46	0	0.0				1055.2
	1/18/2016 8:51	1/18/2016	8:51	26	27	55	0	0.0		0.0	0.00	1055.2
	1/18/2016 8:52	1/18/2016	8:52	34.5	35	55	0	0.0		0.0	0.00	1055.2
	1/18/2016 10:30	1/18/2016	10:30	34	35	62	0	0.0		0.0	0.00	1055.2
	1/18/2016 11:52	1/18/2016	11:52	34	35	65	<2	0.0		0.0	0.00	1055.2
	1/18/2016 13:44	1/18/2016	13:44	33.5	35	68	3	6.2		347.3	39.73	1094.9
	1/18/2016 15:41	1/18/2016	15:41	33.5	35	68	4	8.3		846.6	96.85	1191.8
	1/18/2016 17:12	1/18/2016	17:12	33.5	35	61	4.5	9.4		802.5	91.80	1283.6
	1/19/2016 7:33	1/19/2016	7:33	32.5	35	44	7.5	15.7		10798.6	1235.37	2518.9
	1/19/2016 9:45	1/19/2016	9:45	32.5	35	56	7	14.5		1993.6	228.07	2747.0
	1/19/2016 11:29	1/19/2016	11:29	32.5	35	62	7	14.4		1502.4	171.88	2918.9
	1/19/2016 11:30	1/19/2016	11:30		22					14.4	1.65	2920.5
	SW-193 Event 6	1/27/2016 7:18	1/27/2016	7:18	29.5	28.5	63	0	0.0			
1/27/2016 7:31		1/27/2016	7:31	29.5	28	63	0	0.0		0.0	0.00	2920.5
1/27/2016 7:32		1/27/2016	7:32	37	36	63	0	0.0		0.0	0.00	2920.5
1/27/2016 9:22		1/27/2016	9:22	37	36	66	<2	0.0		0.0	0.00	2920.5
1/27/2016 11:02		1/27/2016	11:02	37	36	81	4	8.5		423.1	48.40	2968.9
1/27/2016 12:18		1/27/2016	12:18	36.5	35.5	81	4	8.4		641.5	73.39	3042.3
1/27/2016 14:08		1/27/2016	14:08	36	34.5	75	4.5	9.5		984.5	112.62	3154.9
1/27/2016 16:04		1/27/2016	16:04	36	34.5	76	4.5	9.5		1099.1	125.74	3280.7
1/27/2016 16:57		1/27/2016	16:57	36	34.5	71	4.5	9.5		503.2	57.56	3338.2
1/28/2016 7:13		1/28/2016	7:13	35	33.5	63	8	16.9		11298.5	1292.55	4630.8
1/28/2016 7:32		1/28/2016	7:32	38	35.5	63	10.5	22.8		377.2	43.16	4673.9
1/28/2016 9:36		1/28/2016	9:36	37	35	63	10.5	22.6		2816.9	322.25	4996.2
1/28/2016 11:30		1/28/2016	11:30	37	35	65	10.5	22.6		2574.5	294.53	5290.7
1/28/2016 11:31		1/28/2016	11:31		22					22.6	2.58	5293.3
SW-193 Event 7	1/29/2016 7:24	1/29/2016	7:24	31.5	31	50	3	6.2				5293.3
	1/29/2016 7:47	1/29/2016	7:47	31	29	52	4.5	9.2		176.9	20.23	5313.5
	1/29/2016 7:48	1/29/2016	7:48	38	36	52	7	15.4		12.3	1.41	5314.9
	1/29/2016 9:18	1/29/2016	9:18	38	36	65	8	17.4		1473.6	168.58	5483.5
	1/29/2016 10:46	1/29/2016	10:46	38	36	70	8.5	18.4		1571.2	179.75	5663.3
	1/29/2016 12:01	1/29/2016	12:01	37	35	72	9	19.2		1408.4	161.12	5824.4
	1/29/2016 12:02	1/29/2016	12:02		22					19.2	2.20	5826.6
SW-193 Event 8	2/1/2016 7:48	2/1/2016	7:48	27	26	53	0	0.0				5826.6
	2/1/2016 8:02	2/1/2016	8:02	27.5	26	55	0	0.0		0.0	0.00	5826.6
	2/1/2016 8:03	2/1/2016	8:03	37	36	55	0	0.0		0.0	0.00	5826.6
	2/1/2016 9:42	2/1/2016	9:42	35	33	75	<2	0.0		0.0	0.00	5826.6
	2/1/2016 9:44	2/1/2016	9:44	38	37	75	4.5	9.7		9.7	1.11	5827.7
	2/1/2016 11:21	2/1/2016	11:21	38	36.5	80	6	12.8		1091.1	124.82	5952.5
	2/1/2016 12:42	2/1/2016	12:42	38	36	80	7	15.0		1125.7	128.78	6081.3
	2/1/2016 14:14	2/1/2016	14:14	38	36	82	7.5	16.0		1424.7	162.98	6244.3
	2/1/2016 15:48	2/1/2016	15:48	38	35.5	78	8	17.1		1557.7	178.20	6422.5
	2/1/2016 16:52	2/1/2016	16:52	37	34.5	74	8	17.0		1093.6	125.11	6547.6
	2/1/2016 16:53	2/1/2016	16:53		24					17.0	1.95	6549.5

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-193 Event 9	2/3/2016 7:18	2/3/2016	7:18	32.5	30	74	0	0.0			6549.5
	2/3/2016 7:37	2/3/2016	7:37	31	29.5	74	<2	0.0	0.0	0.00	6549.5
	2/3/2016 7:38	2/3/2016	7:38	38	36	74	5.5	11.8	5.9	0.68	6550.2
	2/3/2016 9:34	2/3/2016	9:34	38	36	74	6	12.9	1434.4	164.10	6714.3
	2/3/2016 11:11	2/3/2016	11:11	38	36	79	7	15.0	1352.4	154.71	6869.0
	2/3/2016 12:38	2/3/2016	12:38	38	36	79	7.5	16.1	1349.9	154.43	7023.4
	2/3/2016 14:27	2/3/2016	14:27	37.5	35.5	80	8	17.0	1802.5	206.20	7229.6
	2/3/2016 15:24	2/3/2016	15:24	37.5	35.5	80	8	17.0	970.3	111.00	7340.6
	2/3/2016 16:18	2/3/2016	16:18	37.5	35.5	77	8	17.1	920.5	105.31	7446.0
	2/3/2016 16:19	2/3/2016	16:19		20.5				17.1	1.95	7447.9
SW-193 Event 10	2/8/2016 7:45	2/8/2016	7:45	34	32	48	0	0.0			7447.9
	2/8/2016 7:58	2/8/2016	7:58	33	31	50	0	0.0	0.0	0.00	7447.9
	2/8/2016 7:59	2/8/2016	7:59	35	34	50	4	8.6	4.3	0.49	7448.4
	2/8/2016 9:01	2/8/2016	9:01	34.5	33	62	4	8.4	525.7	60.14	7508.5
	2/8/2016 9:02	2/8/2016	9:02	36	35	62	6	12.8	10.6	1.21	7509.7
	2/8/2016 10:34	2/8/2016	10:34	36	35	67	6	12.7	1174.9	134.41	7644.2
	2/8/2016 11:11	2/8/2016	11:11	36	35	70	6	12.7	470.7	53.84	7698.0
	2/8/2016 11:13	2/8/2016	11:13		19				25.4	2.91	7700.9
SW-193 Event 11	2/9/2016 7:38	2/9/2016	7:38	34	33	42	0	0.0			7700.9
	2/9/2016 7:46	2/9/2016	7:46	32.5	31	44	4	8.4	33.5	3.84	7704.7
	2/9/2016 7:47	2/9/2016	7:47	34	33	44	5	10.6	9.5	1.09	7705.8
	2/9/2016 9:19	2/9/2016	9:19	34	33	53	7	14.8	1169.0	133.73	7839.6
	2/9/2016 11:28	2/9/2016	11:28	34	32.5	57	8	16.8	2036.6	232.99	8072.6
	2/9/2016 13:18	2/9/2016	13:18	34	32	60	8	16.8	1846.2	211.20	8283.8
	2/9/2016 13:19	2/9/2016	13:19		19				16.8	1.92	8285.7
Total CO ₂ Mass (lbs):											8285.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-194 Event 1	10/23/2015 8:30	10/23/2015	8:30	10	12	77	0	0.0			0
	10/23/2015 8:38	10/23/2015	8:38	15	17	77	0	0.0	0.0	0.00	0.0
	10/23/2015 9:08	10/23/2015	9:08	15	17	84	0	0.0	0.0	0.00	0.0
	10/23/2015 9:09	10/23/2015	9:09	22	25	84	0	0.0	0.0	0.00	0.0
	10/23/2015 9:36	10/23/2015	9:36	26	26.5	86	5	9.3	125.9	14.40	14.4
	10/23/2015 9:40	10/23/2015	9:40	30	29.5	86	10	19.6	57.8	6.61	21.0
	10/23/2015 10:21	10/23/2015	10:21	30	28	80	13	25.6	925.0	105.82	126.8
	10/23/2015 10:28	10/23/2015	10:28	34	31	80	17	34.9	211.7	24.22	151.1
	10/23/2015 11:18	10/23/2015	11:18	34	30	81	18	36.9	1796.4	205.51	356.6
	10/23/2015 11:19	10/23/2015	11:19	36	32	81	20	41.9	39.4	4.51	361.1
	10/23/2015 11:55	10/23/2015	11:55	36	31	82	20	41.8	1507.3	172.43	533.5
	10/23/2015 12:30	10/23/2015	12:30	36	30.5	82	20	41.8	1464.7	167.56	701.1
	10/23/2015 12:50	10/23/2015	12:50	36	30.5	82	20	41.8	837.0	95.75	796.8
10/23/2015 12:51	10/23/2015	12:51		22				41.8	4.79	801.6	
SW-194 Event 2	11/17/2015 8:18	11/17/2015	8:18	25	24	77	4	7.4			801.6
	11/17/2015 9:18	11/17/2015	9:18	24	21.5	83	7	12.8	605.7	69.30	870.9
	11/17/2015 11:18	11/17/2015	11:18	24	21	88	8	14.5	1636.7	187.24	1058.1
	11/17/2015 12:49	11/17/2015	12:49	23.5	20.5	90	9	16.2	1397.3	159.86	1218.0
	11/17/2015 12:50	11/17/2015	12:50	25	22.5	90	14	25.7	20.9	2.40	1220.4
	11/17/2015 14:10	11/17/2015	14:10	25	22.5	86	14	25.8	2058.7	235.52	1455.9
	11/17/2015 15:36	11/17/2015	15:36	25	22.5	81	14	25.9	2222.5	254.26	1710.2
	11/17/2015 16:05	11/17/2015	16:05	25	22.5	77	14	26.0	752.7	86.10	1796.3
	11/17/2015 16:06	11/17/2015	16:06		19				26.0	2.97	1799.3
SW-194 Event 3	11/21/2015 12:38	11/21/2015	12:38	26	22	81	14	26.2			1799.3
	11/21/2015 12:55	11/21/2015	12:55	25	20.5	79	18	33.4	506.6	57.96	1857.2
	11/21/2015 14:39	11/21/2015	14:39	25	20.5	76	18	33.5	3475.4	397.58	2254.8
	11/21/2015 15:49	11/21/2015	15:49	25	20	75	18	33.5	2343.7	268.12	2522.9
	11/21/2015 17:22	11/21/2015	17:22	25	21	74	18	33.5	3116.7	356.55	2879.5
	11/21/2015 17:23	11/21/2015	17:23		17				33.5	3.84	2883.3
SW-194 Event 4	12/2/2015 8:06	12/2/2015	8:06	28	30	70	12	23.3			2883.3
	12/2/2015 8:20	12/2/2015	8:20	28	24	71	14	27.1	352.9	40.38	2923.7
	12/2/2015 9:43	12/2/2015	9:43	28	24	74	14	27.1	2249.1	257.30	3181.0
	12/2/2015 11:44	12/2/2015	11:44	27	23.5	84	15	28.4	3353.6	383.65	3564.6
	12/2/2015 12:59	12/2/2015	12:59	27	23.5	82	15.5	29.4	2165.5	247.74	3812.4
	12/2/2015 14:29	12/2/2015	14:29	27	23	85	16	30.2	2682.5	306.87	4119.2
	12/2/2015 15:39	12/2/2015	15:39	26	29	76	16	30.1	2112.6	241.68	4360.9
	12/2/2015 16:56	12/2/2015	16:56	26	22.5	74	16	30.2	2321.8	265.61	4626.5
	12/2/2015 16:57	12/2/2015	16:57		19				30.2	3.45	4630.0
SW-194 Event 5	12/4/2015 7:59	12/4/2015	7:59	29	29	60	8	15.9			4630.0
	12/4/2015 8:17	12/4/2015	8:17	28	25	62	12	23.5	353.9	40.49	4670.5
	12/4/2015 8:18	12/4/2015	8:18	31	28.5	62	19	38.5	31.0	3.54	4674.0
	12/4/2015 9:37	12/4/2015	9:37	31.5	28	70	19	38.4	3034.6	347.16	5021.2
	12/4/2015 10:54	12/4/2015	10:54	30.5	27.5	72	17.5	34.9	2820.1	322.61	5343.8
	12/4/2015 12:26	12/4/2015	12:26	32	28.5	72	19.5	39.5	3422.2	391.50	5735.3
	12/4/2015 12:27	12/4/2015	12:27		25				39.5	4.52	5739.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-194 Event 6	12/7/2015 8:16	12/7/2015	8:16	27.5	26.5	62	0	0.0			5739.8
	12/7/2015 8:51	12/7/2015	8:51	26	23.5	64	7	13.3	233.3	26.69	5766.5
	12/7/2015 8:53	12/7/2015	8:53	32	29	64	16	32.7	46.0	5.26	5771.8
	12/7/2015 10:01	12/7/2015	10:01	32.5	29	68	16.5	33.7	2258.6	258.38	6030.2
	12/7/2015 11:21	12/7/2015	11:21	32	29	72	16.5	33.4	2687.4	307.44	6337.6
	12/7/2015 12:55	12/7/2015	12:55	33	30	76	16.5	33.7	3153.9	360.80	6698.4
	12/7/2015 14:44	12/7/2015	14:44	32.5	29	77	16.5	33.5	3658.2	418.49	7116.9
	12/7/2015 16:18	12/7/2015	16:18	32.5	29	75	16.5	33.5	3147.8	360.11	7477.0
	12/7/2015 17:21	12/7/2015	17:21	32.5	28.5	70	17	34.7	2149.1	245.85	7722.9
	12/7/2015 17:22	12/7/2015	17:22		23				34.7	3.97	7726.8
SW-194 Event 7	1/5/2016 7:38	1/5/2016	7:38	27	25.5	46	0	0.0			7726.8
	1/5/2016 8:05	1/5/2016	8:05	26	24	48	4	7.7	104.5	11.96	7738.8
	1/5/2016 8:06	1/5/2016	8:06	32	29	48	14	29.1	18.4	2.10	7740.9
	1/5/2016 9:38	1/5/2016	9:38	32	29	58	15	30.8	2754.4	315.11	8056.0
	1/5/2016 11:25	1/5/2016	11:25	32	29	62	15	30.7	3291.2	376.51	8432.5
	1/5/2016 11:26	1/5/2016	11:26		24				30.7	3.51	8436.0
Total CO ₂ Mass (lbs):											8436.0

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-195 Event 1	10/26/2015 10:16	10/26/2015	10:16	22	21	77	0	0.0			0
	10/26/2015 10:22	10/26/2015	10:22	24	22	77	0	0.0	0.0	0.00	0.0
	10/26/2015 10:35	10/26/2015	10:35	26	24	78	0	0.0	0.0	0.00	0.0
	10/26/2015 10:43	10/26/2015	10:43	28	31	78	0	0.0	0.0	0.00	0.0
	10/26/2015 10:53	10/26/2015	10:53	30	32	79	9	17.7	88.6	10.13	10.1
	10/26/2015 11:01	10/26/2015	11:01	31	33	79	9	17.9	142.5	16.31	26.4
	10/26/2015 11:34	10/26/2015	11:34	31	33	84	9	17.8	589.9	67.48	93.9
	10/26/2015 13:09	10/26/2015	13:09	31	32	84	10	19.8	1788.2	204.57	298.5
	10/26/2015 14:15	10/26/2015	14:15	31	32	82	11	21.8	1374.4	157.24	455.7
	10/26/2015 15:52	10/26/2015	15:52	31	32	81	11	21.9	2119.1	242.43	698.2
	10/26/2015 16:43	10/26/2015	16:43	31	32	80	11	21.9	1115.2	127.58	825.7
10/26/2015 16:44	10/26/2015	16:44		27				21.9	2.50	828.2	
SW-195 Event 2	11/16/2015 8:10	11/16/2015	8:10	28	27	72	0	0.0			828.2
	11/16/2015 8:45	11/16/2015	8:45	27	25.5	76	<2	0.0	0.0	0.00	828.2
	11/16/2015 8:48	11/16/2015	8:48	34	32	76	10	20.6	30.9	3.54	831.8
	11/16/2015 10:13	11/16/2015	10:13	34	32	82	10	20.5	1747.7	199.93	1031.7
	11/16/2015 10:59	11/16/2015	10:59	34	31	83	11	22.5	989.7	113.23	1144.9
	11/16/2015 12:19	11/16/2015	12:19	33	30	83	12	24.3	1874.1	214.39	1359.3
	11/16/2015 14:52	11/16/2015	14:52	33	29	83	13	26.3	3876.2	443.44	1802.8
	11/16/2015 14:53	11/16/2015	14:53	37	32	83	18	38.0	32.2	3.68	1806.4
	11/16/2015 17:32	11/16/2015	17:32	36	31	74	18	38.0	6038.8	690.84	2497.3
	11/16/2015 17:33	11/16/2015	17:33		25				38.0	4.34	2501.6
SW-195 Event 3	11/20/2015 7:56	11/20/2015	7:56	26	27	68	0	0.0			2501.6
	11/20/2015 8:25	11/20/2015	8:25	26	24	73	5	9.4	136.9	15.66	2517.3
	11/20/2015 8:26	11/20/2015	8:26	33	31	73	14	28.6	19.0	2.18	2519.5
	11/20/2015 9:52	11/20/2015	9:52	33.5	30.5	78	14	28.7	2464.4	281.93	2801.4
	11/20/2015 11:26	11/20/2015	11:26	33.5	30.5	82	14	28.6	2689.1	307.63	3109.0
	11/20/2015 13:12	11/20/2015	13:12	33.5	30	81	14	28.6	3028.0	346.40	3455.4
	11/20/2015 15:19	11/20/2015	15:19	33.5	30	80	14	28.6	3631.4	415.43	3870.8
	11/20/2015 17:20	11/20/2015	17:20	32	28	72	15	30.4	3569.7	408.38	4279.2
	11/20/2015 17:21	11/20/2015	17:21		24				30.4	3.48	4282.7
SW-195 Event 4	12/3/2015 7:55	12/3/2015	7:55	30	29	61	0	0.0			4282.7
	12/3/2015 8:09	12/3/2015	8:09	28	26	62	6	11.7	82.1	9.40	4292.1
	12/3/2015 8:10	12/3/2015	8:10	31	30	62	11	22.3	17.0	1.94	4294.0
	12/3/2015 10:38	12/3/2015	10:38	31	29	69	12	24.1	3432.7	392.70	4686.7
	12/3/2015 11:57	12/3/2015	11:57	31	29	74	12	24.0	1901.0	217.48	4904.2
	12/3/2015 13:51	12/3/2015	13:51	31	28	74	12	24.0	2736.6	313.07	5217.3
	12/3/2015 14:59	12/3/2015	14:59	31	29	71	12	24.1	1634.7	187.01	5404.3
	12/3/2015 15:55	12/3/2015	15:55	31	29	71	12	24.1	1348.2	154.24	5558.5
	12/3/2015 16:56	12/3/2015	16:56	31	28	69	12	24.1	1470.0	168.17	5726.7
	12/3/2015 16:57	12/3/2015	16:57		25				24.1	2.76	5729.5
SW-195 Event 5	1/6/2016 11:31	1/6/2016	11:31	30	29	63	0	0.0			5729.5
	1/6/2016 11:50	1/6/2016	11:50	28	27	63	<2	0.0	0.0	0.00	5729.5
	1/6/2016 11:51	1/6/2016	11:51	34	33	63	9	18.8	9.4	1.08	5730.5
	1/6/2016 13:42	1/6/2016	13:42	33	30	63	13.5	27.9	2591.6	296.48	6027.0
	1/6/2016 17:02	1/6/2016	17:02	33	30	60	15.5	32.1	6002.7	686.71	6713.7
	1/6/2016 17:03	1/6/2016	17:03		25				32.1	3.68	6717.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-195 Event 6	1/20/2016 7:42	1/20/2016	7:42	29	27.5	37	0	0.0			6717.4
	1/20/2016 8:12	1/20/2016	8:12	26	24	44	6	11.7	174.9	20.01	6737.4
	1/20/2016 8:13	1/20/2016	8:13	33	31.5	44	10	21.1	16.4	1.87	6739.3
	1/20/2016 9:36	1/20/2016	9:36	29.5	27	63	12.5	24.9	1905.7	218.01	6957.3
	1/20/2016 11:01	1/20/2016	11:01	29.5	27	68	12.5	24.7	2107.2	241.07	7198.4
	1/20/2016 12:30	1/20/2016	12:30	29.5	27	70	12.5	24.7	2198.8	251.54	7449.9
	1/20/2016 14:18	1/20/2016	14:18	29	26.5	71	12.5	24.5	2656.6	303.92	7753.8
	1/20/2016 15:51	1/20/2016	15:51	29	26.5	69	12.5	24.6	2282.2	261.08	8014.9
	1/20/2016 16:51	1/20/2016	16:51	29	26.5	64	12.5	24.7	1477.4	169.02	8183.9
	1/20/2016 16:53	1/20/2016	16:53		22				49.4	5.65	8189.6
Total CO ₂ Mass (lbs):											8189.6

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-196 Event 1	10/21/2015 10:48	10/21/2015	10:48	20	20	85	0	0.0				0
	10/21/2015 11:09	10/21/2015	11:09	20	20	86	0	0.0		0.0	0.00	0.0
	10/21/2015 11:10	10/21/2015	11:10	22	23	86	0	0.0		0.0	0.00	0.0
	10/21/2015 11:23	10/21/2015	11:23	22	23	86	0	0.0		0.0	0.00	0.0
	10/21/2015 11:24	10/21/2015	11:24	25	25	86	0	0.0		0.0	0.00	0.0
	10/21/2015 11:44	10/21/2015	11:44	26	25	86	0	0.0		0.0	0.00	0.0
	10/21/2015 11:45	10/21/2015	11:45	28	27	86	0	0.0		0.0	0.00	0.0
	10/21/2015 12:28	10/21/2015	12:28	28	27	87	0	0.0		0.0	0.00	0.0
	10/21/2015 12:29	10/21/2015	12:29	30	29	87	0	0.0		0.0	0.00	0.0
	10/21/2015 12:33	10/21/2015	12:33	32	31	87	0	0.0		0.0	0.00	0.0
	10/21/2015 12:49	10/21/2015	12:49	32	31	87	<2	0.0		0.0	0.00	0.0
	10/21/2015 12:51	10/21/2015	12:51	33	32	87	3	6.1		6.1	0.69	0.7
	10/21/2015 13:52	10/21/2015	13:52	33	32	84	4	8.1		431.8	49.40	50.1
	10/21/2015 15:13	10/21/2015	15:13	33	31	83	4.5	9.1		697.4	79.78	129.9
	10/21/2015 15:14	10/21/2015	15:14	34	32	83	6	12.3		10.7	1.22	131.1
	10/21/2015 16:09	10/21/2015	16:09	34	32	83	6	12.3		675.9	77.32	208.4
	10/21/2015 17:16	10/21/2015	17:16	34	32	79	6	12.3		825.0	94.38	302.8
10/21/2015 17:17	10/21/2015	17:17		23					12.3	1.41	304.2	
SW-196 Event 2	10/26/2015 8:12	10/26/2015	8:12	22	21	74	0	0.0				304.2
	10/26/2015 8:19	10/26/2015	8:19	24	24	74	0	0.0		0.0	0.00	304.2
	10/26/2015 8:27	10/26/2015	8:27	26	26	74	0	0.0		0.0	0.00	304.2
	10/26/2015 8:32	10/26/2015	8:32	28	27	74	0	0.0		0.0	0.00	304.2
	10/26/2015 8:37	10/26/2015	8:37	30	29	74	0	0.0		0.0	0.00	304.2
	10/26/2015 8:50	10/26/2015	8:50	32	30	74	0	0.0		0.0	0.00	304.2
	10/26/2015 9:02	10/26/2015	9:02	34	32	74	3	6.2		37.2	4.25	308.5
	10/26/2015 10:08	10/26/2015	10:08	34	32	74	4	8.3		477.3	54.60	363.1
	10/26/2015 11:22	10/26/2015	11:22	34	31	80	6	12.3		761.8	87.15	450.2
	10/26/2015 11:23	10/26/2015	11:23	35	32	80	8	16.6		14.5	1.65	451.9
	10/26/2015 12:58	10/26/2015	12:58	35	32	83	8	16.6		1575.0	180.18	632.0
	10/26/2015 14:01	10/26/2015	14:01	35	32	82	9	18.6		1108.7	126.84	758.9
	10/26/2015 15:01	10/26/2015	15:01	35	32	81	9	18.7		1119.1	128.02	886.9
	10/26/2015 16:09	10/26/2015	16:09	35	32	80	10	20.8		1340.1	153.31	1040.2
	10/26/2015 16:56	10/26/2015	16:56	35	32	78	10	20.8		976.4	111.70	1151.9
10/26/2015 16:57	10/26/2015	16:57		22					20.8	2.38	1154.3	
SW-196 Event 3	10/30/2015 7:18	10/30/2015	7:18	25	26	68	0	0.0				1154.3
	10/30/2015 7:23	10/30/2015	7:23	31	32	68	0	0.0		0.0	0.00	1154.3
	10/30/2015 7:42	10/30/2015	7:42	30	29	68	0	0.0		0.0	0.00	1154.3
	10/30/2015 7:43	10/30/2015	7:43	33	33	68	3	6.2		3.1	0.35	1154.6
	10/30/2015 9:03	10/30/2015	9:03	33	33	76	6	12.2		736.5	84.25	1238.9
	10/30/2015 10:11	10/30/2015	10:11	32	32	84	8	16.0		961.1	109.95	1348.8
	10/30/2015 11:00	10/30/2015	11:00	32	32	90	8	15.9		783.0	89.58	1438.4
	10/30/2015 11:01	10/30/2015	11:01		21					15.9	1.82	1440.2
SW-196 Event 4	11/2/2015 10:00	11/2/2015	10:00	28	30	92	0	0.0				1440.2
	11/2/2015 10:10	11/2/2015	10:10	28	30	92	0	0.0		0.0	0.00	1440.2
	11/2/2015 10:11	11/2/2015	10:11	31	33	92	0	0.0		0.0	0.00	1440.2
	11/2/2015 10:44	11/2/2015	10:44	31	33	91	3	5.9		97.4	11.15	1451.4
	11/2/2015 12:22	11/2/2015	12:22	32	32	95	5	9.9		775.1	88.67	1540.1
	11/2/2015 13:29	11/2/2015	13:29	32	31.5	93	6	11.9		731.3	83.66	1623.7
11/2/2015 13:35	11/2/2015	13:35		22					71.5	8.18	1631.9	
SW-196 Event 5	11/5/2015 7:26	11/5/2015	7:26	30	32	76	0	0.0				1631.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	11/5/2015 7:38	11/5/2015	7:38	30	31	76	0	0.0		0.0	0.00	1631.9
	11/5/2015 7:39	11/5/2015	7:39	31	33	76	<2	0.0		0.0	0.00	1631.9
	11/5/2015 8:13	11/5/2015	8:13	31	32	76	4	8.0		135.8	15.53	1647.4
	11/5/2015 8:44	11/5/2015	8:44	31	32	78	5	10.0		278.2	31.83	1679.3
	11/5/2015 9:45	11/5/2015	9:45	31	31.5	78	6	12.0		668.6	76.48	1755.8
	11/5/2015 9:46	11/5/2015	9:46	32	33	78	9	18.1		15.0	1.72	1757.5
	11/5/2015 10:43	11/5/2015	10:43	32	32.5	80	9	18.1		1032.6	118.13	1875.6
	11/5/2015 11:38	11/5/2015	11:38	32	32.5	82	10	20.1		1049.6	120.08	1995.7
	11/5/2015 11:39	11/5/2015	11:39		24					20.1	2.30	1998.0
<u>SW-196 Event 6</u>	11/6/2015 7:15	11/6/2015	7:15	30	32	76	0	0.0				1998.0
	11/6/2015 7:24	11/6/2015	7:24	30	31	76	0	0.0		0.0	0.00	1998.0
	11/6/2015 7:25	11/6/2015	7:25	31	33	76	3	6.0		3.0	0.34	1998.3
	11/6/2015 7:58	11/6/2015	7:58	32	32.5	78	4.5	9.1		248.4	28.42	2026.7
	11/6/2015 8:28	11/6/2015	8:28	32	32	78	5	10.1		287.1	32.84	2059.6
	11/6/2015 9:24	11/6/2015	9:24	31	31.5	82	6.5	12.9		643.4	73.60	2133.2
	11/6/2015 9:25	11/6/2015	9:25	32	32.5	82	8	16.1		14.5	1.66	2134.8
	11/6/2015 10:23	11/6/2015	10:23	32	32.5	85	8	16.0		929.9	106.38	2241.2
	11/6/2015 11:15	11/6/2015	11:15	32	32	90	9	17.9		882.4	100.94	2342.2
	11/6/2015 11:16	11/6/2015	11:16		26					17.9	2.05	2344.2
<u>SW-196 Event 7</u>	11/10/2015 8:07	11/10/2015	8:07	28	28	68	0	0.0				2344.2
	11/10/2015 8:11	11/10/2015	8:11	32	33	68	0	0.0		0.0	0.00	2344.2
	11/10/2015 8:27	11/10/2015	8:27	32	32.5	68	<2	0.0		0.0	0.00	2344.2
	11/10/2015 9:25	11/10/2015	9:25	32	32	72	4	8.1		235.1	26.89	2371.1
	11/10/2015 10:19	11/10/2015	10:19	32	32	72	5	10.1		492.4	56.33	2427.4
	11/10/2015 12:22	11/10/2015	12:22	32	31.5	76	6	12.1		1368.0	156.50	2583.9
	11/10/2015 12:23	11/10/2015	12:23		23					12.1	1.39	2585.3
<u>SW-196 Event 8</u>	11/12/2015 7:52	11/12/2015	7:52	30	30	73	0	0.0				2585.3
	11/12/2015 7:57	11/12/2015	7:57	32	32	73	0	0.0		0.0	0.00	2585.3
	11/12/2015 8:30	11/12/2015	8:30	31	31.5	76	3	6.0		98.8	11.31	2596.6
	11/12/2015 9:45	11/12/2015	9:45	31	31	84	4	7.9		521.8	59.70	2656.3
	11/12/2015 9:46	11/12/2015	9:46	33	33	84	6	12.1		10.0	1.15	2657.5
	11/12/2015 10:49	11/12/2015	10:49	33	33	86	6.5	13.1		796.5	91.12	2748.6
	11/12/2015 12:36	11/12/2015	12:36	33	32.5	90	8	16.1		1564.5	178.98	2927.6
	11/12/2015 12:38	11/12/2015	12:38		23					32.2	3.69	2931.3
<u>SW-196 Event 9</u>	11/13/2015 7:09	11/13/2015	7:09	29	29	64	0	0.0				2931.3
	11/13/2015 7:27	11/13/2015	7:27	26	28	65	<2	0.0		0.0	0.00	2931.3
	11/13/2015 7:28	11/13/2015	7:28	30	31.5	65	6	12.0		6.0	0.68	2931.9
	11/13/2015 8:44	11/13/2015	8:44	30.5	31	72	6	12.0		909.4	104.04	3036.0
	11/13/2015 10:41	11/13/2015	10:41	30.5	31	79	7	13.9		1510.3	172.78	3208.8
	11/13/2015 11:22	11/13/2015	11:22	30	30.5	83	8	15.7		605.7	69.29	3278.1
	11/13/2015 11:23	11/13/2015	11:23		23					15.7	1.79	3279.8
<u>SW-196 Event 10</u>	11/16/2015 7:44	11/16/2015	7:44	27	28	66	0	0.0				3279.8
	11/16/2015 8:11	11/16/2015	8:11	27	27	70	0	0.0		0.0	0.00	3279.8
	11/16/2015 8:13	11/16/2015	8:13	32	34	70	4	8.1		8.1	0.93	3280.8
	11/16/2015 9:36	11/16/2015	9:36	32	33	80	6	12.1		837.8	95.84	3376.6
	11/16/2015 11:38	11/16/2015	11:38	32	32	86	8	16.0		1711.7	195.82	3572.4
	11/16/2015 13:13	11/16/2015	13:13	32	32	85	8.5	17.0		1567.8	179.36	3751.8
	11/16/2015 13:14	11/16/2015	13:14		23					17.0	1.95	3753.7

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-196 Event 11	11/17/2015 7:34	11/17/2015	7:34	29	28	71	0	0.0				3753.7
	11/17/2015 7:54	11/17/2015	7:54	29	28	72	0	0.0	0.0	0.00		3753.7
	11/17/2015 7:55	11/17/2015	7:55	31	33	72	6	12.0	6.0	0.69		3754.4
	11/17/2015 9:48	11/17/2015	9:48	32	33	84	7	14.0	1471.7	168.37		3922.8
	11/17/2015 11:25	11/17/2015	11:25	32	32	87	8.5	17.0	1503.6	172.01		4094.8
	11/17/2015 12:04	11/17/2015	12:04	32	32	87	9	18.0	681.7	77.98		4172.8
	11/17/2015 12:06	11/17/2015	12:06		23				36.0	4.11		4176.9
SW-196 Event 12	11/19/2015 7:35	11/19/2015	7:35	26	27	76	0	0.0				4176.9
	11/19/2015 8:02	11/19/2015	8:02	20	21	76	0	0.0	0.0	0.00		4176.9
	11/19/2015 8:03	11/19/2015	8:03	28	31	76	0	0.0	0.0	0.00		4176.9
	11/19/2015 9:42	11/19/2015	9:42	29	30	77	4	7.8	386.1	44.17		4221.1
	11/19/2015 10:42	11/19/2015	10:42	29	30	77	5	9.7	526.5	60.23		4281.3
	11/19/2015 12:07	11/19/2015	12:07	28	30	78	5.5	10.6	864.4	98.89		4380.2
	11/19/2015 12:13	11/19/2015	12:13		23				63.5	7.27		4387.4
SW-196 Event 13	11/23/2015 7:44	11/23/2015	7:44	26	28	52	0	0.0				4387.4
	11/23/2015 8:18	11/23/2015	8:18	26	28	53	0	0.0	0.0	0.00		4387.4
	11/23/2015 8:19	11/23/2015	8:19	29	29.5	53	<2	0.0	0.0	0.00		4387.4
	11/23/2015 10:10	11/23/2015	10:10	29	29.5	67	4	7.9	437.1	50.00		4437.4
	11/23/2015 10:11	11/23/2015	10:11	32	32.5	67	7	14.3	11.1	1.27		4438.7
	11/23/2015 12:27	11/23/2015	12:27	32	32	72	8	16.2	2071.7	237.00		4675.7
	11/23/2015 14:42	11/23/2015	14:42	32	31	71	10	20.3	2463.5	281.82		4957.5
	11/23/2015 15:49	11/23/2015	15:49	32	31	70	10	20.3	1359.7	155.55		5113.1
	11/23/2015 17:35	11/23/2015	17:35	32	30	60	11	22.6	2271.6	259.87		5373.0
	11/23/2015 17:36	11/23/2015	17:36		23				22.6	2.58		5375.5
SW-196 Event 14	12/2/2015 7:52	12/2/2015	7:52	27	29	68	0	0.0				5375.5
	12/2/2015 8:36	12/2/2015	8:36	29	27.5	70	<2	0.0	0.0	0.00		5375.5
	12/2/2015 8:37	12/2/2015	8:37	32	32	70	4.5	9.1	4.6	0.52		5376.1
	12/2/2015 11:57	12/2/2015	11:57	32	31	86	7	14.0	2313.3	264.64		5640.7
	12/2/2015 13:13	12/2/2015	13:13	32	31	86	8	16.0	1139.7	130.38		5771.1
	12/2/2015 14:45	12/2/2015	14:45	31.5	30.5	86	8	15.9	1467.6	167.89		5939.0
	12/2/2015 16:00	12/2/2015	16:00	31	30	75	9	18.0	1271.1	145.41		6084.4
	12/2/2015 17:11	12/2/2015	17:11	31	30	73	9.5	19.0	1313.8	150.30		6234.7
	12/2/2015 17:12	12/2/2015	17:12		23				19.0	2.18		6236.9
	SW-196 Event 15	12/9/2015 7:38	12/9/2015	7:38	36	35	52	0	0.0			
12/9/2015 8:01		12/9/2015	8:01	36	35	52	5	10.8	123.9	14.18		6251.0
12/9/2015 9:47		12/9/2015	9:47	35	34	72	8	16.7	1458.0	166.80		6417.8
12/9/2015 11:09		12/9/2015	11:09	35	34	78	8	16.6	1368.1	156.51		6574.3
12/9/2015 12:38		12/9/2015	12:38	34	34	78	11	22.6	1747.7	199.93		6774.3
12/9/2015 15:01		12/9/2015	15:01	34	34	78	12	24.7	3384.5	387.18		7161.5
12/9/2015 16:13		12/9/2015	16:13	34	34	72	12	24.8	1783.3	204.01		7365.5
12/9/2015 16:57		12/9/2015	16:57		22				1093.0	125.04		7490.5
SW-196 Event 16	12/16/2015 7:41	12/16/2015	7:41	27	28	66	0	0.0				7490.5
	12/16/2015 8:19	12/16/2015	8:19	26	27	67	<2	0.0	0.0	0.00		7490.5
	12/16/2015 8:20	12/16/2015	8:20	32	33	67	6	12.2	6.1	0.70		7491.2
	12/16/2015 10:07	12/16/2015	10:07	33.5	33	74	8	16.4	1533.3	175.41		7666.6
	12/16/2015 11:13	12/16/2015	11:13	33	32	76	8.5	17.3	1114.9	127.55		7794.2
	12/16/2015 12:58	12/16/2015	12:58	33	31.5	80	10	20.3	1977.6	226.24		8020.4
	12/16/2015 14:58	12/16/2015	14:58	33	31	77	11	22.4	2564.9	293.43		8313.8
	12/16/2015 16:10	12/16/2015	16:10	33	31	75	12	24.5	1689.5	193.28		8507.1
	12/16/2015 17:05	12/16/2015	17:05	32	30.5	74	12	24.3	1341.4	153.46		8660.6

LCP Chemicals Site, Brunswick, GA
SW-196

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	12/16/2015 17:06	12/16/2015	17:06		23					24.3	2.78	8663.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-196 Event 17	12/19/2015 11:18	12/19/2015	11:18	28	28.5	68	0	0.0				8663.4
	12/19/2015 11:46	12/19/2015	11:46	27.5	27	69	0	0.0		0.0	0.00	8663.4
	12/19/2015 11:47	12/19/2015	11:47	33	32.5	69	4	8.2		4.1	0.47	8663.8
	12/19/2015 12:51	12/19/2015	12:51	32	31.5	70	6	12.2		652.8	74.68	8738.5
	12/19/2015 13:32	12/19/2015	13:32	31.5	31.5	68	7.5	15.2		560.8	64.16	8802.7
	12/19/2015 14:40	12/19/2015	14:40	31	31	68	8	16.1		1063.3	121.64	8924.3
	12/19/2015 15:38	12/19/2015	15:38	31	30.5	68	9	18.1		992.0	113.48	9037.8
	12/19/2015 17:00	12/19/2015	17:00	31.5	30.5	64	9.5	19.3		1533.7	175.45	9213.2
	12/19/2015 17:01	12/19/2015	17:01		23					19.3	2.21	9215.4
SW-196 Event 18	12/22/2015 7:22	12/22/2015	7:22	31	31	72	0	0.0				9215.4
	12/22/2015 7:56	12/22/2015	7:56	31	31	72	3	6.0		102.2	11.69	9227.1
	12/22/2015 7:57	12/22/2015	7:57	32	32	72	4	8.1		7.1	0.81	9227.9
	12/22/2015 10:38	12/22/2015	10:38	32	31	78	7	14.1		1787.8	204.53	9432.5
	12/22/2015 10:50	12/22/2015	10:50	32	31	78	7	14.1		169.2	19.36	9451.8
	12/22/2015 10:51	12/22/2015	10:51		23					14.1	1.61	9453.4
SW-196 Event 19	1/5/2016 7:50	1/5/2016	7:50	28	28.5	46	0	0.0				9453.4
	1/5/2016 8:18	1/5/2016	8:18	28	27	46	0	0.0		0.0	0.00	9453.4
	1/5/2016 8:19	1/5/2016	8:19	33	33	46	4	8.4		4.2	0.48	9453.9
	1/5/2016 9:51	1/5/2016	9:51	33	33	57	6.5	13.5		1008.5	115.37	9569.3
	1/5/2016 11:42	1/5/2016	11:42	32	31.5	62	8	16.4		1658.6	189.75	9759.0
	1/5/2016 13:07	1/5/2016	13:07	32	31	62	8.5	17.4		1435.1	164.18	9923.2
	1/5/2016 14:11	1/5/2016	14:11	32	31	58	9	18.5		1148.4	131.38	10054.6
	1/5/2016 15:42	1/5/2016	15:42	32	31	56	9.5	19.6		1731.3	198.06	10252.7
	1/5/2016 17:01	1/5/2016	17:01	30	30	54	10.5	21.2		1609.4	184.11	10436.8
	1/6/2016 8:05	1/6/2016	8:05	30	27.5	48	16	32.5	overnight	24255.8	2774.87	13211.6
	1/6/2016 8:06	1/6/2016	8:06		22					32.5	3.72	13215.4
	SW-196 Event 20	1/13/2016 8:18	1/13/2016	8:18	25	26.5	45	0	0.0			
1/13/2016 8:40		1/13/2016	8:40	25	26	50	0	0.0		0.0	0.00	13215.4
1/13/2016 8:41		1/13/2016	8:41	30	30.5	50	4.5	9.1		4.6	0.52	13215.9
1/13/2016 10:21		1/13/2016	10:21	30	29.5	67	7	13.9		1152.9	131.89	13347.8
1/13/2016 11:54		1/13/2016	11:54	30	29	70	8.5	16.9		1433.2	163.96	13511.7
1/13/2016 13:57		1/13/2016	13:57	28.5	28	70	9.5	18.5		2178.4	249.21	13760.9
1/13/2016 15:35		1/13/2016	15:35	28.5	27.5	68	10	19.6		1866.8	213.56	13974.5
1/13/2016 16:56		1/13/2016	16:56	28.5	27.5	64	10.5	20.6		1626.9	186.11	14160.6
1/13/2016 16:57		1/13/2016	16:57		21					20.6	2.36	14163.0
SW-196 Event 21	1/20/2016 7:59	1/20/2016	7:59	31	31	42	0	0.0				14163.0
	1/20/2016 8:28	1/20/2016	8:28	30	30	52	4	8.1		117.3	13.41	14176.4
	1/20/2016 8:29	1/20/2016	8:29	33	32	52	5.5	11.5		9.8	1.12	14177.5
	1/20/2016 9:47	1/20/2016	9:47	32	30.5	66	8	16.3		1084.2	124.03	14301.5
	1/20/2016 11:11	1/20/2016	11:11	31.5	30	72	9.5	19.1		1489.1	170.35	14471.9
	1/20/2016 12:38	1/20/2016	12:38	31.5	30	73	10	20.1		1708.7	195.48	14667.3
	1/20/2016 12:39	1/20/2016	12:39	34	33	73	13	26.9		23.5	2.69	14670.0
	1/20/2016 14:05	1/20/2016	14:05	34	33	71	14	29.0		2403.4	274.95	14945.0
	1/20/2016 15:42	1/20/2016	15:42	34	33	69	14	29.1		2816.6	322.22	15267.2
	1/20/2016 17:10	1/20/2016	17:10	32	30.5	64	15	30.6		2626.9	300.52	15567.7
	1/20/2016 17:11	1/20/2016	17:11		22					30.6	3.50	15571.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-196 Event 22	1/27/2016 7:35	1/27/2016	7:35	27.5	28	62	0	0.0				15571.2
	1/27/2016 7:54	1/27/2016	7:54	28	27.5	62	0	0.0		0.0	0.00	15571.2
	1/27/2016 7:55	1/27/2016	7:55	32	32.5	62	4	8.2		4.1	0.47	15571.7
	1/27/2016 9:34	1/27/2016	9:34	33	33	66	7.5	15.5		1170.1	133.87	15705.6
	1/27/2016 11:18	1/27/2016	11:18	33	33	86	9.5	19.2		1801.9	206.14	15911.7
	1/27/2016 12:28	1/27/2016	12:28	32	32	80	10	20.1		1375.8	157.39	16069.1
	1/27/2016 14:14	1/27/2016	14:14	31.5	31	76	10.5	21.1		2183.0	249.73	16318.8
	1/27/2016 15:48	1/27/2016	15:48	31	30	76	10.5	21.0		1976.1	226.06	16544.9
	1/27/2016 17:10	1/27/2016	17:10	31	30	71	11	22.1		1764.4	201.84	16746.7
	1/27/2016 17:11	1/27/2016	17:11		22					22.1	2.52	16749.3
SW-196 Event 23	2/2/2016 8:13	2/2/2016	8:13	31	31	65	0	0.0				16749.3
	2/2/2016 8:29	2/2/2016	8:29	30.5	30	67	<2	0.0		0.0	0.00	16749.3
	2/2/2016 8:30	2/2/2016	8:30	34	34.5	67	4.5	9.4		4.7	0.54	16749.8
	2/2/2016 10:34	2/2/2016	10:34	34	34	84	8	16.4		1595.3	182.51	16932.3
	2/2/2016 12:40	2/2/2016	12:40	34	33.5	80	10.5	21.6		2390.1	273.43	17205.7
	2/2/2016 14:42	2/2/2016	14:42	33	32	82	11.5	23.3		2738.8	313.32	17519.0
	2/2/2016 15:55	2/2/2016	15:55	32	31	84	11.5	23.0		1692.4	193.61	17712.7
	2/2/2016 17:11	2/2/2016	17:11	31.5	30.5	77	12	24.1		1790.0	204.77	17917.4
	2/2/2016 17:13	2/2/2016	17:13		22					48.1	5.51	17922.9
	SW-196 Event 24	2/9/2016 7:37	2/9/2016	7:37	28	27	48	0	0.0			
2/9/2016 7:59		2/9/2016	7:59	26.5	24	51	0	0.0		0.0	0.00	17922.9
2/9/2016 8:00		2/9/2016	8:00	32	32	51	4	8.3		4.1	0.47	17923.4
2/9/2016 9:35		2/9/2016	9:35	32	32	63	7	14.3		1072.9	122.74	18046.2
2/9/2016 11:59		2/9/2016	11:59	32	31	66	9.5	19.4		2424.7	277.38	18323.5
2/9/2016 13:48		2/9/2016	13:48	32	30.5	64	10	20.4		2168.5	248.08	18571.6
2/9/2016 15:08		2/9/2016	15:08	31.5	30	65	10	20.3		1628.7	186.32	18757.9
2/9/2016 16:56		2/9/2016	16:56	31	29.5	65	11	22.2		2294.6	262.50	19020.4
2/9/2016 16:57		2/9/2016	16:57		22					22.2	2.54	19023.0
SW-196 Event 25		2/15/2016 8:07	2/15/2016	8:07	33	33	53	0	0.0			
	2/15/2016 8:54	2/15/2016	8:54	32.5	31	56	5	10.3		243.2	27.82	19050.8
	2/15/2016 8:55	2/15/2016	8:55	36	35	56	7	15.0		12.7	1.45	19052.3
	2/15/2016 9:58	2/15/2016	9:58	36	35	64	8.5	18.1		1043.5	119.38	19171.6
	2/15/2016 11:31	2/15/2016	11:31	35.5	34	67	10	21.1		1824.0	208.67	19380.3
	2/15/2016 12:54	2/15/2016	12:54	35	33	74	11	23.0		1829.6	209.31	19589.6
	2/15/2016 14:05	2/15/2016	14:05	35	32	76	11.5	24.0		1665.7	190.56	19780.2
	2/15/2016 15:59	2/15/2016	15:59	33.5	31.5	74	12	24.7		2771.5	317.05	20097.2
	2/15/2016 17:07	2/15/2016	17:07	33	31	70	12	24.6		1675.9	191.72	20289.0
	2/15/2016 17:08	2/15/2016	17:08		24					24.6	2.82	20291.8
Total CO ₂ Mass (lbs):											20291.8	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-197 Event 1	10/20/2015 9:05	10/20/2015	9:05	10	11	70	0	0.0				0
	10/20/2015 9:27	10/20/2015	9:27	11	11	72	0	0.0		0.0	0.00	0.0
	10/20/2015 9:28	10/20/2015	9:28	19	19	72	0	0.0		0.0	0.00	0.0
	10/20/2015 12:00	10/20/2015	12:00	20	19	82	0	0.0		0.0	0.00	0.0
	10/20/2015 12:02	10/20/2015	12:02	23	23	82	0	0.0		0.0	0.00	0.0
	10/20/2015 13:35	10/20/2015	13:35	23	23	80	0	0.0		0.0	0.00	0.0
	10/20/2015 13:37	10/20/2015	13:37	26	26	80	0	0.0		0.0	0.00	0.0
	10/20/2015 15:00	10/20/2015	15:00	26	26	80	0	0.0		0.0	0.00	0.0
	10/20/2015 15:02	10/20/2015	15:02	28	28	80	0	0.0		0.0	0.00	0.0
	10/20/2015 15:26	10/20/2015	15:26	28	28	80	0	0.0		0.0	0.00	0.0
	10/20/2015 15:28	10/20/2015	15:28	30	30	80	0	0.0		0.0	0.00	0.0
	10/20/2015 15:45	10/20/2015	15:45	30	30	80	0	0.0		0.0	0.00	0.0
	10/20/2015 17:37	10/20/2015	17:37	30	30	78	0	0.0		0.0	0.00	0.0
10/20/2015 17:38	10/20/2015	17:38		19					0.0	0.00	0.0	
SW-197 Event 2	10/22/2015 8:01	10/22/2015	8:01	24	24	70	0	0.0				0.0
	10/22/2015 8:10	10/22/2015	8:10	24	24	70	0	0.0		0.0	0.00	0.0
	10/22/2015 8:11	10/22/2015	8:11	26	26	70	0	0.0		0.0	0.00	0.0
	10/22/2015 8:21	10/22/2015	8:21	26	26	70	0	0.0		0.0	0.00	0.0
	10/22/2015 8:22	10/22/2015	8:22	28	28	70	0	0.0		0.0	0.00	0.0
	10/22/2015 8:31	10/22/2015	8:31	29	28	72	0	0.0		0.0	0.00	0.0
	10/22/2015 8:32	10/22/2015	8:32	31	30	72	0	0.0		0.0	0.00	0.0
	10/22/2015 9:21	10/22/2015	9:21	31	29.5	79	0	0.0		0.0	0.00	0.0
	10/22/2015 9:22	10/22/2015	9:22	32	31	79	0	0.0		0.0	0.00	0.0
	10/22/2015 11:16	10/22/2015	11:16	32	30	85	0	0.0		0.0	0.00	0.0
	10/22/2015 11:17	10/22/2015	11:17	33	31	85	0	0.0		0.0	0.00	0.0
	10/22/2015 13:55	10/22/2015	13:55	33	31	85	<2	0.0		0.0	0.00	0.0
	10/22/2015 14:44	10/22/2015	14:44	33	31	84	<2	0.0		0.0	0.00	0.0
	10/22/2015 16:16	10/22/2015	16:16	33	31	80	<2	0.0		0.0	0.00	0.0
	10/22/2015 16:41	10/22/2015	16:41	33	30	80	<2	0.0		0.0	0.00	0.0
10/22/2015 16:42	10/22/2015	16:42		23					0.0	0.00	0.0	

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-197 Event 3	10/28/2015 8:13	10/28/2015	8:13	27	24	74	0	0.0				0.0
	10/28/2015 8:23	10/28/2015	8:23	27	26	75	0	0.0	0.0	0.00	0.0	
	10/28/2015 8:25	10/28/2015	8:25	30	29.5	75	0	0.0	0.0	0.00	0.0	
	10/28/2015 8:52	10/28/2015	8:52	30	29.5	76	0	0.0	0.0	0.00	0.0	
	10/28/2015 10:29	10/28/2015	10:29	30	29	80	0	0.0	0.0	0.00	0.0	
	10/28/2015 10:30	10/28/2015	10:30	31	30	80	0	0.0	0.0	0.00	0.0	
	10/28/2015 12:01	10/28/2015	12:01	31	30	90	0	0.0	0.0	0.00	0.0	
	10/28/2015 14:05	10/28/2015	14:05	31	29.5	90	0	0.0	0.0	0.00	0.0	
	10/28/2015 15:13	10/28/2015	15:13	31	29.5	87	0	0.0	0.0	0.00	0.0	
	10/28/2015 15:14	10/28/2015	15:14	32	30.5	87	0	0.0	0.0	0.00	0.0	
	10/28/2015 16:57	10/28/2015	16:57	32	30	86	0	0.0	0.0	0.00	0.0	
	10/28/2015 16:58	10/28/2015	16:58	34	32	86	<2	0.0	0.0	0.00	0.0	
	10/28/2015 17:08	10/28/2015	17:08	34	32	86	<2	0.0	0.0	0.00	0.0	
	10/29/2015 7:45	10/29/2015	7:45	34	31	70	6	12.4	5457.0	624.28	624.3	
	10/29/2015 9:30	10/29/2015	9:30	34	31	74	6	12.4	1304.1	149.19	773.5	
	10/29/2015 10:54	10/29/2015	10:54	34	31	86	6	12.3	1035.3	118.44	891.9	
	10/29/2015 12:03	10/29/2015	12:03	34	31	89	6	12.2	844.3	96.59	988.5	
	10/29/2015 13:59	10/29/2015	13:59	34	30.5	90	7	14.2	1534.8	175.58	1164.1	
	10/29/2015 15:18	10/29/2015	15:18	34	30.5	90	7	14.2	1125.2	128.72	1292.8	
	10/29/2015 16:18	10/29/2015	16:18	34	30.5	90	7	14.2	854.6	97.76	1390.6	
10/29/2015 16:42	10/29/2015	16:42	33	30.5	88	8	16.1	364.6	41.71	1432.3		
10/30/2015 7:14	10/30/2015	7:14	34	29.5	68	11	22.9	17002.9	1945.13	3377.4		
10/30/2015 7:15	10/30/2015	7:15		22				22.9	2.62	3380.0		
SW-197 Event 4	11/3/2015 7:38	11/3/2015	7:38	28	29	78	0	0.0				3380.0
	11/3/2015 7:42	11/3/2015	7:42	29	30	78	0	0.0	0.0	0.00	3380.0	
	11/3/2015 7:49	11/3/2015	7:49	29	29.5	78	0	0.0	0.0	0.00	3380.0	
	11/3/2015 7:51	11/3/2015	7:51	30	31	78	0	0.0	0.0	0.00	3380.0	
	11/3/2015 8:20	11/3/2015	8:20	30	31	80	0	0.0	0.0	0.00	3380.0	
	11/3/2015 10:04	11/3/2015	10:04	30	30.5	84	<2	0.0	0.0	0.00	3380.0	
	11/3/2015 10:08	11/3/2015	10:08	31	31	84	3	5.9	11.9	1.36	3381.4	
	11/3/2015 10:58	11/3/2015	10:58	30	31	89	4	7.8	343.6	39.31	3420.7	
	11/3/2015 12:07	11/3/2015	12:07	30	30.5	92	4	7.8	537.5	61.48	3482.2	
	11/3/2015 12:38	11/3/2015	12:38	30	30.5	95	4	7.8	240.8	27.55	3509.7	
	11/3/2015 13:34	11/3/2015	13:34	30	30.5	90	4.5	8.8	462.7	52.93	3562.6	
	11/3/2015 14:36	11/3/2015	14:36	29.5	30.5	95	5	9.6	570.6	65.28	3627.9	
	11/3/2015 15:43	11/3/2015	15:43	30	30.5	94	5	9.7	648.1	74.14	3702.1	
	11/3/2015 16:42	11/3/2015	16:42	30	30	86	5.5	10.8	603.6	69.05	3771.1	
	11/3/2015 17:04	11/3/2015	17:04	31	30	83	5.5	10.9	238.3	27.26	3798.4	
	11/3/2015 17:05	11/3/2015	17:05	33	32.5	83	7.5	15.2	13.1	1.49	3799.9	
	11/4/2015 7:24	11/4/2015	7:24	32	31	78	12	24.2	16912.6	1934.80	5734.7	
	11/4/2015 8:26	11/4/2015	8:26	32	31	78	12	24.2	1499.0	171.48	5906.1	
	11/4/2015 9:24	11/4/2015	9:24	32	31	80	12	24.1	1400.9	160.26	6066.4	
	11/4/2015 10:24	11/4/2015	10:24	32	31	80	12	24.1	1447.8	165.63	6232.0	
	11/4/2015 11:23	11/4/2015	11:23	32	31	81	12.5	25.1	1452.6	166.18	6398.2	
	11/4/2015 12:27	11/4/2015	12:27	32	31	82	12.5	25.1	1606.4	183.77	6582.0	
	11/4/2015 13:25	11/4/2015	13:25	32	31	84	13	26.0	1482.8	169.63	6751.6	
	11/4/2015 14:23	11/4/2015	14:23	32	31	81	13	26.1	1512.6	173.04	6924.7	
	11/4/2015 15:21	11/4/2015	15:21	32	31	80	13	26.1	1515.5	173.37	7098.0	
	11/4/2015 16:02	11/4/2015	16:02	32	31	78	13	26.2	1072.8	122.73	7220.8	
	11/5/2015 7:20	11/5/2015	7:20	32	31	76	15	30.3	25920.0	2965.25	10186.0	

LCP Chemicals Site, Brunswick, GA
SW-197

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	11/5/2015 7:22	11/5/2015	7:22		24					60.6	6.93	10192.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-197 Event 5	11/9/2015 8:18	11/9/2015	8:18	27	29	72	0	0.0				10192.9
	11/9/2015 8:19	11/9/2015	8:19	30	32	72	0	0.0	0.0	0.00		10192.9
	11/9/2015 8:33	11/9/2015	8:33	29	31	72	0	0.0	0.0	0.00		10192.9
	11/9/2015 12:08	11/9/2015	12:08	28	29	74	4	7.7	831.1	95.08		10288.0
	11/9/2015 12:09	11/9/2015	12:09	30	31.5	74	6	11.9	9.8	1.12		10289.1
	11/9/2015 13:55	11/9/2015	13:55	31	31.5	76	6.5	13.0	1316.9	150.65		10439.8
	11/9/2015 15:35	11/9/2015	15:35	31	31	81	7	13.9	1344.3	153.79		10593.6
	11/9/2015 17:02	11/9/2015	17:02	31	31	77	7	14.0	1212.4	138.70		10732.3
	11/9/2015 17:03	11/9/2015	17:03		23				14.0	1.60		10733.9
SW-197 Event 6	11/11/2015 7:57	11/11/2015	7:57	27	29	64	0	0.0				10733.9
	11/11/2015 8:04	11/11/2015	8:04	30	31.5	64	0	0.0	0.0	0.00		10733.9
	11/11/2015 8:31	11/11/2015	8:31	30	31.5	66	0	0.0	0.0	0.00		10733.9
	11/11/2015 9:09	11/11/2015	9:09	30	31	67	<2	0.0	0.0	0.00		10733.9
	11/11/2015 9:52	11/11/2015	9:52	29	29.5	75	3	5.9	126.0	14.42		10748.3
	11/11/2015 9:54	11/11/2015	9:54	30	31.5	75	5	9.9	15.7	1.80		10750.1
	11/11/2015 10:44	11/11/2015	10:44	30	31.5	80	5	9.8	492.9	56.38		10806.5
	11/11/2015 11:41	11/11/2015	11:41	30	31.5	82	6	11.8	615.9	70.46		10876.9
	11/11/2015 12:45	11/11/2015	12:45	30	31.5	83	6	11.8	753.4	86.19		10963.1
	11/11/2015 14:59	11/11/2015	14:59	30	31	86	6	11.7	1574.5	180.12		11143.2
	11/11/2015 16:01	11/11/2015	16:01	30	31	87	7	13.7	787.7	90.11		11233.4
	11/11/2015 17:07	11/11/2015	17:07	30	31	78	7.5	14.8	939.0	107.42		11340.8
	11/11/2015 17:08	11/11/2015	17:08		23				14.8	1.69		11342.5
	SW-197 Event 7	11/18/2015 7:56	11/18/2015	7:56	26	28	76	0	0.0			
11/18/2015 8:54		11/18/2015	8:54	20	22	80	0	0.0	0.0	0.00		11342.5
11/18/2015 8:55		11/18/2015	8:55	28	30	80	0	0.0	0.0	0.00		11342.5
11/18/2015 11:13		11/18/2015	11:13	28	30	81	3	5.8	397.4	45.46		11387.9
11/18/2015 12:18		11/18/2015	12:18	28	29	83	4	7.7	436.3	49.91		11437.8
11/18/2015 13:31		11/18/2015	13:31	28	29	80	4	7.7	560.3	64.10		11501.9
11/18/2015 13:32		11/18/2015	13:32	30	31.5	80	6	11.8	9.7	1.11		11503.1
11/18/2015 15:24		11/18/2015	15:24	30	31	77	6	11.8	1323.5	151.41		11654.5
11/18/2015 17:08		11/18/2015	17:08	30	31	78	6.5	12.8	1281.4	146.59		11801.1
11/19/2015 7:30		11/19/2015	7:30	29	29	76	10	19.5	13932.6	1593.89		13395.0
11/19/2015 7:31		11/19/2015	7:31		23				19.5	2.23		13397.2
SW-197 Event 8	11/20/2015 7:42	11/20/2015	7:42	26	27	65	0	0.0				13397.2
	11/20/2015 8:03	11/20/2015	8:03	23.5	24	68	0	0.0	0.0	0.00		13397.2
	11/20/2015 8:04	11/20/2015	8:04	28	29.5	68	0	0.0	0.0	0.00		13397.2
	11/20/2015 10:07	11/20/2015	10:07	28	28.5	79	4	7.7	473.2	54.13		13451.3
	11/20/2015 10:08	11/20/2015	10:08	30	31.5	79	6	11.8	9.8	1.12		13452.4
	11/20/2015 11:38	11/20/2015	11:38	30	31	82	6.5	12.8	1105.7	126.49		13578.9
	11/20/2015 12:58	11/20/2015	12:58	30	30.5	81	6.5	12.8	1021.2	116.83		13695.8
	11/20/2015 15:38	11/20/2015	15:38	30	30	78	8	15.8	2282.8	261.16		13956.9
	11/20/2015 17:01	11/20/2015	17:01	30	30	72	8	15.9	1312.2	150.12		14107.0
	11/20/2015 17:02	11/20/2015	17:02		24				15.9	1.81		14108.8
SW-197 Event 9	11/24/2015 7:19	11/24/2015	7:19	26	28	50	0	0.0				14108.8
	11/24/2015 7:38	11/24/2015	7:38	26	27	52	0	0.0	0.0	0.00		14108.8
	11/24/2015 7:39	11/24/2015	7:39	30	30	52	0	0.0	0.0	0.00		14108.8
	11/24/2015 8:31	11/24/2015	8:31	29.5	30	63	<2	0.0	0.0	0.00		14108.8
	11/24/2015 10:07	11/24/2015	10:07	29	29	70	4	7.9	376.9	43.12		14152.0
	11/24/2015 10:08	11/24/2015	10:08	30	32	70	6	11.9	9.9	1.13		14153.1
	11/24/2015 11:09	11/24/2015	11:09	31	32	72	6	12.0	730.2	83.53		14236.6

LCP Chemicals Site, Brunswick, GA
SW-197

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	11/24/2015 11:10	11/24/2015	11:10		24					12.0	1.38	14238.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-197 Event 10	11/30/2015 12:02	11/30/2015	12:02	24	26	88	0	0.0				14238.0
	11/30/2015 12:03	11/30/2015	12:03	28	31	88	0	0.0	0.0	0.00		14238.0
	11/30/2015 12:44	11/30/2015	12:44	28	30.5	90	0	0.0	0.0	0.00		14238.0
	11/30/2015 14:11	11/30/2015	14:11	31	30.5	87	3	5.9	257.8	29.50		14267.5
	11/30/2015 15:11	11/30/2015	15:11	31	30.5	82	4	7.9	416.0	47.59		14315.1
	11/30/2015 16:08	11/30/2015	16:08	30	30	76	4	7.9	451.4	51.64		14366.7
	11/30/2015 16:09	11/30/2015	16:09		23				7.9	0.90		14367.6
SW-197 Event 11	12/3/2015 7:39	12/3/2015	7:39	29.5	29	60	0	0.0				14367.6
	12/3/2015 9:44	12/3/2015	9:44	29.5	27	70	0	0.0	0.0	0.00		14367.6
	12/3/2015 9:45	12/3/2015	9:45	30.5	30.5	70	3	6.0	3.0	0.34		14368.0
	12/3/2015 12:03	12/3/2015	12:03	30	29	71	4	7.9	960.9	109.93		14477.9
	12/3/2015 13:35	12/3/2015	13:35	29.5	29	72	4	7.9	727.6	83.24		14561.2
	12/3/2015 13:36	12/3/2015	13:36	30	30	72	6	11.9	9.9	1.13		14562.3
	12/3/2015 14:50	12/3/2015	14:50	30.5	30	70	6	12.0	883.3	101.05		14663.3
	12/3/2015 15:46	12/3/2015	15:46	30.5	30	70	6	12.0	671.0	76.76		14740.1
	12/3/2015 17:11	12/3/2015	17:11	30.5	30	66	6	12.0	1020.5	116.75		14856.9
	12/3/2015 17:12	12/3/2015	17:12		23				12.0	1.38		14858.2
	SW-197 Event 12	12/7/2015 8:00	12/7/2015	8:00	32	35	60	0	0.0			
12/7/2015 8:39		12/7/2015	8:39	35	35	60	4	8.5	165.1	18.89		14877.1
12/7/2015 9:50		12/7/2015	9:50	34	34	70	4	8.3	595.1	68.08		14945.2
12/7/2015 10:46		12/7/2015	10:46	34	34	70	4	8.3	464.6	53.15		14998.3
12/7/2015 12:12		12/7/2015	12:12	34	34	74	4	8.3	712.1	81.46		15079.8
12/7/2015 12:47		12/7/2015	12:47	33	33	74	5	10.2	323.5	37.01		15116.8
12/7/2015 14:17		12/7/2015	14:17	33	32	78	8	16.3	1193.1	136.49		15253.3
12/7/2015 16:14		12/7/2015	16:14	32	31	78	10	20.1	2131.7	243.87		15497.2
12/7/2015 17:15		12/7/2015	17:15		23				1229.0	140.60		15637.8
SW-197 Event 13	12/10/2015 7:30	12/10/2015	7:30	37	37	52	0	0.0				15637.8
	12/10/2015 8:04	12/10/2015	8:04	35	35	52	4	8.5	145.1	16.60		15654.4
	12/10/2015 9:36	12/10/2015	9:36	35	35	72	6	12.5	969.9	110.95		15765.3
	12/10/2015 10:49	12/10/2015	10:49	35	35	76	6	12.5	914.3	104.60		15869.9
	12/10/2015 11:49	12/10/2015	11:49	35	35	78	6	12.5	749.3	85.72		15955.6
	12/10/2015 13:19	12/10/2015	13:19	34	34	78	8	16.5	1302.3	148.99		16104.6
	12/10/2015 15:12	12/10/2015	15:12	34	34	78	8	16.5	1860.5	212.84		16317.5
	12/10/2015 16:00	12/10/2015	16:00	34	34	72	8	16.6	792.6	90.67		16408.1
12/10/2015 16:47	12/10/2015	16:47		22				778.3	89.04		16497.2	
SW-197 Event 14	12/15/2015 7:46	12/15/2015	7:46	26	28	67	0	0.0				16497.2
	12/15/2015 8:16	12/15/2015	8:16	26	27	68	0	0.0	0.0	0.00		16497.2
	12/15/2015 8:17	12/15/2015	8:17	29	31	68	3	5.9	3.0	0.34		16497.5
	12/15/2015 10:15	12/15/2015	10:15	32	31	83	4	8.0	821.4	93.96		16591.5
	12/15/2015 11:55	12/15/2015	11:55	31.5	30.5	87	4.5	8.9	848.0	97.01		16688.5
	12/15/2015 13:49	12/15/2015	13:49	31.5	30.5	85	5.5	10.9	1133.6	129.68		16818.2
	12/15/2015 15:13	12/15/2015	15:13	31.5	30	86	6	11.9	960.9	109.93		16928.1
	12/15/2015 16:02	12/15/2015	16:02	28	30	83	6	11.5	574.0	65.66		16993.8
	12/15/2015 17:07	12/15/2015	17:07	28.5	29.5	76	6.5	12.6	783.6	89.64		17083.4
	12/15/2015 17:08	12/15/2015	17:08		23.5				12.6	1.44		17084.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-197 Event 15	12/18/2015 8:14	12/18/2015	8:14	28	28.5	69	0	0.0				17084.8
	12/18/2015 8:42	12/18/2015	8:42	28.5	28	68	0	0.0	0.0	0.00		17084.8
	12/18/2015 8:43	12/18/2015	8:43	31.5	31.5	68	0	0.0	0.0	0.00		17084.8
	12/18/2015 9:25	12/18/2015	9:25	30	30.5	68	3	6.0	125.4	14.34		17099.2
	12/18/2015 10:23	12/18/2015	10:23	29.5	30	72	4	7.9	401.7	45.95		17145.1
	12/18/2015 11:22	12/18/2015	11:22	29.5	30	72	4	7.9	465.1	53.21		17198.3
	12/18/2015 12:35	12/18/2015	12:35	29	30	72	4.5	8.8	609.5	69.73		17268.1
	12/18/2015 13:17	12/18/2015	13:17	29	30	72	5.5	10.8	411.5	47.07		17315.1
	12/18/2015 14:19	12/18/2015	14:19	29.5	29.5	70	5.5	10.9	670.7	76.73		17391.9
	12/18/2015 14:20	12/18/2015	14:20		23				10.9	1.24		17393.1
SW-197 Event 16	12/21/2015 7:52	12/21/2015	7:52	27	27	63	0	0.0				17393.1
	12/21/2015 8:18	12/21/2015	8:18	27	27	66	0	0.0	0.0	0.00		17393.1
	12/21/2015 8:19	12/21/2015	8:19	31	31	66	0	0.0	0.0	0.00		17393.1
	12/21/2015 9:40	12/21/2015	9:40	31	31	76	<2	0.0	0.0	0.00		17393.1
	12/21/2015 11:58	12/21/2015	11:58	31	31	85	4	7.9	546.3	62.50		17455.6
	12/21/2015 12:53	12/21/2015	12:53	28	30	86	4	7.6	427.9	48.95		17504.6
	12/21/2015 14:00	12/21/2015	14:00	28.5	29	80	4.5	8.7	547.4	62.63		17567.2
	12/21/2015 15:02	12/21/2015	15:02	29	29.5	80	5	9.7	571.0	65.33		17632.5
	12/21/2015 15:53	12/21/2015	15:53	28.5	29.5	78	5.5	10.7	519.5	59.43		17692.0
	12/21/2015 16:57	12/21/2015	16:57	29	29.5	76	5.5	10.7	684.4	78.29		17770.3
	12/21/2015 16:58	12/21/2015	16:58		23.5				10.7	1.23		17771.5
SW-197 Event 17	1/6/2016 8:07	1/6/2016	8:07	27	26.5	48	0	0.0				17771.5
	1/6/2016 8:32	1/6/2016	8:32	27	25.5	49	0	0.0	0.0	0.00		17771.5
	1/6/2016 8:33	1/6/2016	8:33	32.5	32	49	0	0.0	0.0	0.00		17771.5
	1/6/2016 10:42	1/6/2016	10:42	32	31	60	4	8.2	529.0	60.52		17832.0
	1/6/2016 12:11	1/6/2016	12:11	31.5	30	64	5	10.2	817.0	93.46		17925.5
	1/6/2016 14:00	1/6/2016	14:00	31.5	30	63	6	12.2	1218.4	139.39		18064.9
	1/6/2016 17:03	1/6/2016	17:03	29	29.5	60	8	15.9	2567.5	293.73		18358.6
	1/7/2016 7:38	1/7/2016	7:38	29	28	56	10	19.9	15647.6	1790.09		20148.7
	1/7/2016 7:39	1/7/2016	7:39		21.5				19.9	2.28		20150.9
SW-197 Event 18	1/8/2016 7:48	1/8/2016	7:48	27	28	60	6	11.6				20150.9
	1/8/2016 8:10	1/8/2016	8:10	28	28	61	6	11.7	257.0	29.40		20180.3
	1/8/2016 8:11	1/8/2016	8:11	30	31	61	8	16.0	13.9	1.59		20181.9
	1/8/2016 10:07	1/8/2016	10:07	32	32	64	7.5	15.3	1818.1	207.99		20389.9
	1/8/2016 11:07	1/8/2016	11:07	32	31	67	8	16.3	948.3	108.48		20498.4
	1/8/2016 13:48	1/8/2016	13:48	32	31	70	9	18.3	2782.5	318.32		20816.7
	1/8/2016 15:31	1/8/2016	15:31	32	30.5	71	10	20.3	1985.7	227.17		21043.9
	1/8/2016 16:16	1/8/2016	16:16	32	30.5	70	10	20.3	913.2	104.47		21148.4
	1/8/2016 17:18	1/8/2016	17:18	32	30.5	66	10	20.4	1261.3	144.30		21292.7
	1/8/2016 17:19	1/8/2016	17:19		23				20.4	2.33		21295.0
SW-197 Event 19	1/11/2016 8:16	1/11/2016	8:16	28	28	47	0	0.0				21295.0
	1/11/2016 8:43	1/11/2016	8:43	28	27	53	0	0.0	0.0	0.00		21295.0
	1/11/2016 8:44	1/11/2016	8:44	31	30.5	53	0	0.0	0.0	0.00		21295.0
	1/11/2016 10:27	1/11/2016	10:27	32	30	62	4	8.2	421.6	48.23		21343.2
	1/11/2016 11:58	1/11/2016	11:58	31.5	30.5	67	4	8.1	741.1	84.78		21428.0
	1/11/2016 14:02	1/11/2016	14:02	31	30	66	4.5	9.1	1064.8	121.81		21549.8
	1/11/2016 15:02	1/11/2016	15:02	31	30	66	5	10.1	574.6	65.73		21615.5
	1/11/2016 16:56	1/11/2016	16:56	29	29.5	67	6	11.8	1248.0	142.77		21758.3
	1/11/2016 16:57	1/11/2016	16:57		23				11.8	1.35		21759.7

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-197 Event 20	1/14/2016 7:24	1/14/2016	7:24	28	28	44	0	0.0				21759.7
	1/14/2016 7:52	1/14/2016	7:52	28	27	46	0	0.0	0.0	0.00		21759.7
	1/14/2016 7:53	1/14/2016	7:53	32	31	46	<2	0.0	0.0	0.00		21759.7
	1/14/2016 9:38	1/14/2016	9:38	31.5	31.5	60	4.5	9.2	481.8	55.12		21814.8
	1/14/2016 11:38	1/14/2016	11:38	31.5	31	74	5.5	11.1	1214.4	138.93		21953.7
	1/14/2016 13:04	1/14/2016	13:04	31.5	30.5	70	6	12.1	996.7	114.02		22067.7
	1/14/2016 14:46	1/14/2016	14:46	31.5	30	68	6.5	13.2	1288.6	147.42		22215.2
	1/14/2016 16:10	1/14/2016	16:10	30	30	64	7	14.0	1139.6	130.38		22345.5
	1/14/2016 16:52	1/14/2016	16:52	30	30	62	7.5	15.0	608.9	69.66		22415.2
	1/14/2016 16:53	1/14/2016	16:53		23				15.0	1.72		22416.9
SW-197 Event 21	1/19/2016 7:50	1/19/2016	7:50	28	29	40	0	0.0				22416.9
	1/19/2016 8:16	1/19/2016	8:16	28	27.5	47	0	0.0	0.0	0.00		22416.9
	1/19/2016 8:17	1/19/2016	8:17	32	32.5	47	<2	0.0	0.0	0.00		22416.9
	1/19/2016 9:55	1/19/2016	9:55	32	32	58	4.5	9.2	453.1	51.83		22468.7
	1/19/2016 12:15	1/19/2016	12:15	32	31.5	64	5.5	11.2	1433.6	164.00		22632.7
	1/19/2016 14:38	1/19/2016	14:38	32	31	62	6.5	13.3	1754.3	200.69		22833.4
	1/19/2016 16:15	1/19/2016	16:15	32	30.5	64	7	14.3	1338.6	153.13		22986.6
	1/19/2016 17:22	1/19/2016	17:22	32	30.5	59	7	14.4	960.3	109.86		23096.4
	1/20/2016 7:56	1/20/2016	7:56	30.5	29	42	10	20.5	15255.3	1745.21		24841.6
	1/20/2016 7:57	1/20/2016	7:57		24				20.5	2.35		24844.0
SW-197 Event 22	1/21/2016 7:40	1/21/2016	7:40	29	29	52	<2	0.0				24844.0
	1/21/2016 8:02	1/21/2016	8:02	29	29	55	<2	0.0	0.0	0.00		24844.0
	1/21/2016 8:03	1/21/2016	8:03	32	32	55	4	8.2	4.1	0.47		24844.4
	1/21/2016 9:18	1/21/2016	9:18	31	31	70	5.5	11.0	723.3	82.75		24927.2
	1/21/2016 12:50	1/21/2016	12:50	31	30.5	73	7	14.0	2656.6	303.91		25231.1
	1/21/2016 15:23	1/21/2016	15:23	31	29.5	72	8	16.0	2298.9	263.00		25494.1
	1/21/2016 17:07	1/21/2016	17:07	30.5	29	67	8.5	17.0	1719.1	196.66		25690.8
	1/21/2016 17:08	1/21/2016	17:08		22.5				17.0	1.95		25692.7
	SW-197 Event 23	1/26/2016 9:01	1/26/2016	9:01	30	30	60	0	0.0			
1/26/2016 9:58		1/26/2016	9:58	29.5	29.5	66	<2	0.0	0.0	0.00		25692.7
1/26/2016 9:59		1/26/2016	9:59	32	32	66	<2	0.0	0.0	0.00		25692.7
1/26/2016 12:12		1/26/2016	12:12	32	31	77	4.5	9.1	603.5	69.04		25761.7
1/26/2016 14:19		1/26/2016	14:19	32	31	77	5	10.1	1216.6	139.17		25900.9
1/26/2016 15:56		1/26/2016	15:56	32	31	74	5.5	11.1	1028.5	117.67		26018.6
1/26/2016 17:21		1/26/2016	17:21	31	30.5	70	5.5	11.0	942.2	107.79		26126.4
1/27/2016 7:31		1/27/2016	7:31	30	29	61	9	18.0	12357.6	1413.71		27540.1
1/27/2016 7:32		1/27/2016	7:32		22.5				18.0	2.06		27542.1
SW-197 Event 24	1/29/2016 7:14	1/29/2016	7:14	27	28	50	0	0.0				27542.1
	1/29/2016 7:33	1/29/2016	7:33	25	26.5	50	0	0.0	0.0	0.00		27542.1
	1/29/2016 7:34	1/29/2016	7:34	29	31.5	50	0	0.0	0.0	0.00		27542.1
	1/29/2016 9:07	1/29/2016	9:07	31	31	63	4.5	9.1	423.1	48.41		27590.6
	1/29/2016 10:44	1/29/2016	10:44	30.5	30.5	70	5.5	11.0	974.0	111.43		27702.0
	1/29/2016 11:44	1/29/2016	11:44	30.5	30	74	5.5	10.9	657.7	75.25		27777.2
	1/29/2016 11:45	1/29/2016	11:45		23				10.9	1.25		27778.5

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-197 Event 25	2/1/2016 7:42	2/1/2016	7:42	28.5	28.5	54	0	0.0				27778.5
	2/1/2016 8:14	2/1/2016	8:14	28	28	60	0	0.0	0.0	0.00		27778.5
	2/1/2016 8:15	2/1/2016	8:15	30	32.5	60	3	6.0	3.0	0.34		27778.8
	2/1/2016 9:58	2/1/2016	9:58	32.5	32	80	4.5	9.1	778.4	89.05		27867.9
	2/1/2016 11:37	2/1/2016	11:37	32.5	32	86	5	10.1	947.9	108.44		27976.3
	2/1/2016 12:47	2/1/2016	12:47	32.5	32	89	5.5	11.0	737.7	84.39		28060.7
	2/1/2016 14:22	2/1/2016	14:22	32.5	32	85	6	12.1	1097.1	125.51		28186.2
	2/1/2016 15:57	2/1/2016	15:57	32.5	32	82	6.5	13.1	1196.5	136.88		28323.1
	2/1/2016 17:10	2/1/2016	17:10	32	31.5	80	7	14.1	992.5	113.54		28436.6
	2/2/2016 8:07	2/2/2016	8:07	31	29.5	64	10.5	21.2	15826.3	1810.53		30247.2
2/2/2016 8:10	2/2/2016	8:10		22.5				63.6	7.28		30254.4	
SW-197 Event 26	2/9/2016 7:29	2/9/2016	7:29	29	28	42	0	0.0				30254.4
	2/9/2016 7:53	2/9/2016	7:53	24	22.5	46	0	0.0	0.0	0.00		30254.4
	2/9/2016 7:54	2/9/2016	7:54	33	33	46	0	0.0	0.0	0.00		30254.4
	2/9/2016 9:25	2/9/2016	9:25	33	32.5	53	4	8.3	379.9	43.46		30297.9
	2/9/2016 11:08	2/9/2016	11:08	32.5	32	58	4.5	9.3	908.8	103.96		30401.9
	2/9/2016 13:28	2/9/2016	13:28	31.5	31	60	6	12.2	1507.3	172.43		30574.3
	2/9/2016 15:03	2/9/2016	15:03	31.5	31	62	6	12.2	1161.3	132.85		30707.2
	2/9/2016 16:13	2/9/2016	16:13	31	30.5	60	6.5	13.2	888.8	101.68		30808.8
	2/9/2016 16:14	2/9/2016	16:14		23.5				13.2	1.51		30810.3
	SW-197 Event 27	2/16/2016 7:33	2/16/2016	7:33	29	29	62	0	0.0			
2/16/2016 8:11		2/16/2016	8:11	29	29	68	0	0.0	0.0	0.00		30810.3
2/16/2016 8:12		2/16/2016	8:12	33	33	68	<2	0.0	0.0	0.00		30810.3
2/16/2016 9:25		2/16/2016	9:25	32.5	32.5	74	4	8.1	296.9	33.96		30844.3
2/16/2016 10:39		2/16/2016	10:39	32.5	32	77	4.5	9.1	638.5	73.05		30917.4
2/16/2016 12:52		2/16/2016	12:52	32.5	31.5	81	5.5	11.1	1345.5	153.93		31071.3
2/16/2016 15:00		2/16/2016	15:00	32	31	81	6	12.1	1482.4	169.59		31240.9
2/16/2016 16:00		2/16/2016	16:00	32	31	81	6.5	13.1	753.4	86.18		31327.1
2/16/2016 17:03		2/16/2016	17:03	31.5	30.5	79	7	14.0	852.7	97.55		31424.6
2/16/2016 17:04		2/16/2016	17:04		23				14.0	1.60		31426.2
SW-197 Event 28	2/18/2016 7:51	2/18/2016	7:51	31	31.5	56	0	0.0				31426.2
	2/18/2016 7:56	2/18/2016	7:56	33	33	56	0	0.0	0.0	0.00		31426.2
	2/18/2016 9:28	2/18/2016	9:28	33	32.5	67	<2	0.0	0.0	0.00		31426.2
	2/18/2016 10:27	2/18/2016	10:27	32	31	70	4	8.1	239.6	27.41		31453.6
	2/18/2016 12:07	2/18/2016	12:07	31	30.5	72	4	8.0	806.9	92.31		31545.9
	2/18/2016 13:13	2/18/2016	13:13	31	30.5	72	4	8.0	529.1	60.53		31606.5
	2/18/2016 14:42	2/18/2016	14:42	31	30	71	4.5	9.0	758.5	86.78		31693.2
	2/18/2016 17:12	2/18/2016	17:12	30.5	29	68	6	12.0	1577.6	180.47		31873.7
	2/18/2016 17:13	2/18/2016	17:13		23				12.0	1.37		31875.1
	SW-197 Event 29	2/23/2016 7:35	2/23/2016	7:35	29.5	30	68	0	0.0			
2/23/2016 7:59		2/23/2016	7:59	29	29	68	0	0.0	0.0	0.00		31875.1
2/23/2016 8:00		2/23/2016	8:00	31	32	68	0	0.0	0.0	0.00		31875.1
2/23/2016 9:12		2/23/2016	9:12	32	32	69	<2	0.0	0.0	0.00		31875.1
2/23/2016 11:46		2/23/2016	11:46	31.5	31.5	83	4	8.0	614.2	70.27		31945.4
2/23/2016 13:42		2/23/2016	13:42	31.5	30.5	85	4.5	9.0	982.2	112.36		32057.7
2/23/2016 14:46		2/23/2016	14:46	31	30	80	5	9.9	604.8	69.19		32126.9
2/23/2016 15:48		2/23/2016	15:48	31	30	80	5	9.9	616.6	70.53		32197.4
2/23/2016 17:02		2/23/2016	17:02	31	30	76	6	12.0	811.2	92.80		32290.2
2/23/2016 17:03		2/23/2016	17:03		24				12.0	1.37		32291.6
Total CO ₂ Mass (lbs):											32291.6	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-198 Event 1	10/21/2015 9:25	10/21/2015	9:25	22	22	80	0	0.0				0
	10/21/2015 9:50	10/21/2015	9:50	22	23	80	0	0.0		0.0	0.00	0.0
	10/21/2015 9:51	10/21/2015	9:51	24	26	80	0	0.0		0.0	0.00	0.0
	10/21/2015 10:05	10/21/2015	10:05	26	27	80	0	0.0		0.0	0.00	0.0
	10/21/2015 10:06	10/21/2015	10:06	28	29	80	0	0.0		0.0	0.00	0.0
	10/21/2015 10:24	10/21/2015	10:24	28	29	82	0	0.0		0.0	0.00	0.0
	10/21/2015 10:25	10/21/2015	10:25	30	30	82	0	0.0		0.0	0.00	0.0
	10/21/2015 10:37	10/21/2015	10:37	30	30	83	0	0.0		0.0	0.00	0.0
	10/21/2015 10:38	10/21/2015	10:38	31	31	83	0	0.0		0.0	0.00	0.0
	10/21/2015 12:45	10/21/2015	12:45	30	30	86	5	9.8		620.9	71.03	71.0
	10/21/2015 12:46	10/21/2015	12:46	31	31	86	6	11.9		10.8	1.24	72.3
	10/21/2015 13:47	10/21/2015	13:47	31	31	87	6	11.9		723.5	82.76	155.0
	10/21/2015 14:59	10/21/2015	14:59	31	30	82	8	15.9		998.5	114.23	269.3
	10/21/2015 15:00	10/21/2015	15:00	32	31	82	8.5	17.1		16.5	1.88	271.1
	10/21/2015 16:05	10/21/2015	16:05	32	31	82	9	18.1		1141.5	130.59	401.7
10/21/2015 17:07	10/21/2015	17:07	32	31	78	10	20.1		1184.5	135.51	537.2	
10/21/2015 17:08	10/21/2015	17:08		21					20.1	2.30	539.5	
SW-198 Event 2	10/29/2015 7:51	10/29/2015	7:51	25	25	70	0	0.0				539.5
	10/29/2015 8:08	10/29/2015	8:08	25	25	70	0	0.0		0.0	0.00	539.5
	10/29/2015 8:10	10/29/2015	8:10	31	31	70	<2	0.0		0.0	0.00	539.5
	10/29/2015 9:15	10/29/2015	9:15	30	29	72	6	11.9		386.5	44.21	583.8
	10/29/2015 9:18	10/29/2015	9:18	32	31	72	8	16.2		42.2	4.82	588.6
	10/29/2015 10:49	10/29/2015	10:49	32	30	84	10	20.0		1649.1	188.66	777.2
	10/29/2015 10:51	10/29/2015	10:51	33	31	84	12	24.3		44.3	5.07	782.3
	10/29/2015 11:56	10/29/2015	11:56	33	30.5	91	12	24.1		1574.2	180.08	962.4
	10/29/2015 11:59	10/29/2015	11:59		19					72.4	8.28	970.7
SW-198 Event 3	11/3/2015 11:39	11/3/2015	11:39	30	30	91	0	0.0				970.7
	11/3/2015 11:42	11/3/2015	11:42	32	32	94	0	0.0		0.0	0.00	970.7
	11/3/2015 12:09	11/3/2015	12:09	30	30	92	4	7.8		105.0	12.01	982.7
	11/3/2015 12:11	11/3/2015	12:11	31	31	92	6	11.8		19.6	2.24	984.9
	11/3/2015 12:40	11/3/2015	12:40	30	30	95	7	13.6		367.9	42.09	1027.0
	11/3/2015 12:42	11/3/2015	12:42	31	30.5	95	8	15.7		29.3	3.35	1030.4
	11/3/2015 13:43	11/3/2015	13:43	31	30	90	10	19.7		1079.4	123.48	1153.8
	11/3/2015 13:44	11/3/2015	13:44	32	30.5	90	11.5	22.9		21.3	2.44	1156.3
	11/3/2015 14:46	11/3/2015	14:46	32	30	96	12	23.8		1446.9	165.53	1321.8
	11/3/2015 14:47	11/3/2015	14:47	33	31	96	14	28.0		25.9	2.96	1324.8
	11/3/2015 15:45	11/3/2015	15:45	34	30.5	94	14	28.4		1635.8	187.14	1511.9
	11/3/2015 16:46	11/3/2015	16:46	33	30	84	16	32.4		1853.7	212.06	1724.0
	11/3/2015 16:47	11/3/2015	16:47	34	30.5	84	18	36.8		34.6	3.96	1727.9
	11/3/2015 17:00	11/3/2015	17:00	34	30.5	82	18	36.9		479.3	54.83	1782.8
	11/3/2015 17:01	11/3/2015	17:01		19					36.9	4.22	1787.0

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-198 Event 4	11/6/2015 7:21	11/6/2015	7:21	33	33	76	0	0.0				1787.0
	11/6/2015 7:22	11/6/2015	7:22	31	31	76	0	0.0	0.0	0.00		1787.0
	11/6/2015 7:30	11/6/2015	7:30	30	29.5	76	6	11.8	47.4	5.42		1792.4
	11/6/2015 7:31	11/6/2015	7:31	32	31	76	8	16.1	14.0	1.60		1794.0
	11/6/2015 8:03	11/6/2015	8:03	31	29	78	12	23.9	641.0	73.33		1867.3
	11/6/2015 8:04	11/6/2015	8:04	33	30.5	78	14	28.5	26.2	3.00		1870.3
	11/6/2015 8:34	11/6/2015	8:34	33	30	78	15	30.5	885.9	101.34		1971.7
	11/6/2015 8:35	11/6/2015	8:35	34	30.5	78	15.5	31.9	31.2	3.57		1975.3
	11/6/2015 9:30	11/6/2015	9:30	34	30	82	16	32.8	1779.3	203.55		2178.8
	11/6/2015 9:31	11/6/2015	9:31	36	31	82	18	37.7	35.2	4.03		2182.8
	11/6/2015 10:28	11/6/2015	10:28	36	30	86	18	37.5	2142.8	245.13		2428.0
	11/6/2015 10:29	11/6/2015	10:29	38	31.5	86	19.5	41.5	39.5	4.52		2432.5
	11/6/2015 11:21	11/6/2015	11:21	38	31	90	20	42.4	2179.0	249.28		2681.8
11/6/2015 11:22	11/6/2015	11:22		21				42.4	4.85		2686.6	
SW-198 Event 5	11/10/2015 12:28	11/10/2015	12:28	28	28	76	0	0.0				2686.6
	11/10/2015 12:45	11/10/2015	12:45	27	27	76	4	7.6	64.8	7.41		2694.0
	11/10/2015 12:47	11/10/2015	12:47	31	31.5	76	7	14.0	21.6	2.47		2696.5
	11/10/2015 14:10	11/10/2015	14:10	30	29.5	76	12	23.7	1563.2	178.83		2875.3
	11/10/2015 14:11	11/10/2015	14:11	32	30	76	13	26.2	25.0	2.86		2878.2
	11/10/2015 15:19	11/10/2015	15:19	31	29	72	14	28.1	1846.3	211.21		3089.4
	11/10/2015 16:53	11/10/2015	16:53	31	28	68	16	32.2	2832.0	323.98		3413.4
	11/10/2015 16:54	11/10/2015	16:54		20				32.2	3.68		3417.1
SW-198 Event 5	11/13/2015 7:11	11/13/2015	7:11	30	30.5	62	0	0.0				3417.1
	11/13/2015 7:32	11/13/2015	7:32	28	28	64	5.5	10.7	112.7	12.89		3430.0
	11/13/2015 7:33	11/13/2015	7:33	31	30.5	64	10	20.2	15.5	1.77		3431.7
	11/13/2015 8:41	11/13/2015	8:41	30.5	28.5	69	12	24.0	1502.4	171.88		3603.6
	11/13/2015 8:42	11/13/2015	8:42	32	29.5	69	14	28.5	26.2	3.00		3606.6
	11/13/2015 10:38	11/13/2015	10:38	31	28	80	16	31.8	3496.0	399.94		4006.5
	11/13/2015 10:39	11/13/2015	10:39	33	30	80	18	36.6	34.2	3.91		4010.5
	11/13/2015 11:43	11/13/2015	11:43	33	29	82	18	36.5	2339.3	267.62		4278.1
	11/13/2015 11:44	11/13/2015	11:44		20.5				36.5	4.18		4282.3
	SW-198 Event 6	11/17/2014 12:04	11/17/2014	12:04	27	28	90	0	0.0			
11/17/2014 12:13		11/17/2014	12:13	26	27	90	0	0.0	0.0	0.00		4282.3
11/17/2014 12:14		11/17/2014	12:14	31	31.5	90	4	7.9	3.9	0.45		4282.7
11/17/2014 13:16		11/17/2014	13:16	30	30	90	10	19.5	848.2	97.04		4379.7
11/17/2014 13:18		11/17/2014	13:18	31.5	31	90	12	23.8	43.3	4.95		4384.7
11/17/2014 14:36		11/17/2014	14:36	31	29	84	16	31.7	2163.5	247.50		4632.2
11/17/2014 15:29		11/17/2014	15:29	30.5	28.5	85	17	33.5	1726.9	197.56		4829.7
11/17/2014 15:30		11/17/2014	15:30	33.5	31	85	20	40.7	37.1	4.24		4834.0
11/17/2014 16:32		11/17/2014	16:32	33	29	75	21	42.9	2590.5	296.35		5130.3
11/17/2014 16:33		11/17/2014	16:33		19				42.9	4.91		5135.2
SW-198 Event 7	11/20/2015 12:31	11/20/2015	12:31	27.5	28	82	0	0.0				5135.2
	11/20/2015 12:51	11/20/2015	12:51	27	27	81	3	5.7	56.9	6.51		5141.8
	11/20/2015 12:54	11/20/2015	12:54	31	30.5	81	6	11.9	26.4	3.02		5144.8
	11/20/2015 15:33	11/20/2015	15:33	29	27	79	12	23.4	2804.5	320.83		5465.6
	11/20/2015 15:34	11/20/2015	15:34	33	29.5	79	16	32.6	28.0	3.20		5468.8
	11/20/2015 17:05	11/20/2015	17:05	33	28	71	18.5	37.9	3207.0	366.88		5835.7
	11/20/2015 17:06	11/20/2015	17:06		20.5				37.9	4.34		5840.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-198 Event 8	12/1/2015 12:40	12/1/2015	12:40	28	28	87	0	0.0			5840.0
	12/1/2015 12:44	12/1/2015	12:44	27	27	87	0	0.0	0.0	0.00	5840.0
	12/1/2015 12:45	12/1/2015	12:45	32	32	87	5	10.0	5.0	0.57	5840.6
	12/1/2015 14:19	12/1/2015	14:19	30	29	86	14	27.4	1756.2	200.91	6041.5
	12/1/2015 14:20	12/1/2015	14:20	34	32	86	18	36.8	32.1	3.67	6045.2
	12/1/2015 15:48	12/1/2015	15:48	33	30.5	82	21	42.6	3492.1	399.49	6444.7
	12/1/2015 17:08	12/1/2015	17:08	37	28	74	23.5	50.0	3706.0	423.97	6868.6
	12/1/2015 17:09	12/1/2015	17:09		19				50.0	5.73	6874.4
SW-198 Event 9	12/3/2015 7:44	12/3/2015	7:44	29	31	60	0	0.0			6874.4
	12/3/2015 8:18	12/3/2015	8:18	27	27	62	7.5	14.5	246.4	28.18	6902.5
	12/3/2015 8:19	12/3/2015	8:19	31	31.5	62	13	26.3	20.4	2.33	6904.9
	12/3/2015 9:40	12/3/2015	9:40	30.5	30	69	16.5	33.0	2401.5	274.74	7179.6
	12/3/2015 10:52	12/3/2015	10:52	30	28.5	68	19	37.8	2548.4	291.53	7471.2
	12/3/2015 12:07	12/3/2015	12:07	30	28.5	72	20	39.6	2904.1	332.23	7803.4
	12/3/2015 12:43	12/3/2015	12:43	29.5	28	73	20.5	40.4	1440.0	164.73	7968.1
	12/3/2015 12:44	12/3/2015	12:44		19				40.4	4.62	7972.7
SW-198 Event 10	12/8/2015 7:54	12/8/2015	7:54	35	37	58	0	0.0			7972.7
	12/8/2015 8:19	12/8/2015	8:19	32	32	60	11	22.6	282.0	32.26	8005.0
	12/8/2015 9:36	12/8/2015	9:36	31	31	76	16	31.9	2098.3	240.05	8245.0
	12/8/2015 10:31	12/8/2015	10:31	31	31	80	17	33.8	1808.3	206.87	8451.9
	12/8/2015 11:40	12/8/2015	11:40	30	30	80	18	35.4	2387.8	273.17	8725.1
	12/8/2015 11:50	12/8/2015	11:50		18				354.0	40.50	8765.6
	SW-198 Event 11	12/10/2015 7:37	12/10/2015	7:37	45	45	52	10	23.4		
12/10/2015 7:40		12/10/2015	7:40	33	33	52	8	16.7	60.2	6.89	8772.5
12/10/2015 7:59		12/10/2015	7:59	32	32	52	12	24.8	394.5	45.13	8817.6
12/10/2015 9:32		12/10/2015	9:32	31	31	72	16	32.1	2644.7	302.55	9120.1
12/10/2015 10:46		12/10/2015	10:46	31	31	76	16	31.9	2368.5	270.96	9391.1
12/10/2015 11:47		12/10/2015	11:47	30	30	78	20	39.4	2176.3	248.97	9640.1
12/10/2015 12:30		12/10/2015	12:30		18				1694.6	193.87	9833.9
SW-198 Event 12	12/15/2015 12:32	12/15/2015	12:32	28.5	29	89	0	0.0			9833.9
	12/15/2015 12:42	12/15/2015	12:42	26.5	27	89	4	7.5	37.4	4.28	9838.2
	12/15/2015 12:43	12/15/2015	12:43	31.5	32	89	7.5	14.9	11.2	1.28	9839.5
	12/15/2015 13:45	12/15/2015	13:45	30	29	87	14	27.4	1308.9	149.74	9989.2
	12/15/2015 13:46	12/15/2015	13:46	34	32	87	18	36.7	32.0	3.67	9992.9
	12/15/2015 15:11	12/15/2015	15:11	33	30	86	22	44.5	3450.6	394.74	10387.7
	12/15/2015 15:59	12/15/2015	15:59	36	28	84	24	50.1	2270.0	259.69	10647.3
	12/15/2015 17:04	12/15/2015	17:04	37	28	76	26	55.3	3425.1	391.83	11039.2
	12/15/2015 17:05	12/15/2015	17:05		20				55.3	6.32	11045.5
SW-198 Event 13	12/17/2015 7:32	12/17/2015	7:32	27	28	72	0	0.0			11045.5
	12/17/2015 8:10	12/17/2015	8:10	25.5	25	75	5.5	10.3	195.7	22.39	11067.9
	12/17/2015 8:11	12/17/2015	8:11	31	29.5	75	10	20.0	15.1	1.73	11069.6
	12/17/2015 9:42	12/17/2015	9:42	28	27.5	80	14.5	27.9	2177.1	249.06	11318.7
	12/17/2015 9:43	12/17/2015	9:43	31	30	80	18	35.8	31.8	3.64	11322.3
	12/17/2015 10:46	12/17/2015	10:46	34	28	84	19	38.9	2352.4	269.11	11591.4
	12/17/2015 11:36	12/17/2015	11:36	34	27	82	21	43.1	2048.3	234.33	11825.8
	12/17/2015 11:37	12/17/2015	11:37		20				43.1	4.93	11830.7
SW-198 Event 14	1/6/2016 12:12	1/6/2016	12:12	30	30	64	0	0.0			11830.7
	1/6/2016 12:18	1/6/2016	12:18	30	29	64	<2	0.0	0.0	0.00	11830.7
	1/6/2016 12:19	1/6/2016	12:19	33	32	64	6	12.4	6.2	0.71	11831.4
	1/6/2016 13:33	1/6/2016	13:33	31	30	62	14	28.3	1506.8	172.38	12003.8

LCP Chemicals Site, Brunswick, GA
SW-198

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/6/2016 17:05	1/6/2016	17:05	33	26.5	59	20	41.5		7402.5	846.84	12850.6
	1/6/2016 17:06	1/6/2016	17:06		18.5					41.5	4.75	12855.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-198 Event 15	1/21/2016 7:39	1/21/2016	7:39	27	28	52	0	0.0				12855.4
	1/21/2016 7:59	1/21/2016	7:59	26	26	54	4	7.7		77.0	8.80	12864.2
	1/21/2016 8:00	1/21/2016	8:00	32	32	54	10	20.6		14.2	1.62	12865.8
	1/21/2016 9:13	1/21/2016	9:13	30.5	29.5	70	16	32.0		1919.3	219.56	13085.4
	1/21/2016 12:43	1/21/2016	12:43	29	26	73	22	43.1		7876.8	901.10	13986.5
	1/21/2016 12:44	1/21/2016	12:44		20					43.1	4.93	13991.4
SW-198 Event 16	1/27/2016 7:11	1/27/2016	7:11	30	30	62	0	0.0				13991.4
	1/27/2016 7:47	1/27/2016	7:47	28	27.5	62	9	17.6		316.8	36.24	14027.6
	1/27/2016 7:48	1/27/2016	7:48	33	31	62	12.5	25.9		21.7	2.49	14030.1
	1/27/2016 9:27	1/27/2016	9:27	31	29	66	16.5	33.3		2926.6	334.81	14364.9
	1/27/2016 11:07	1/27/2016	11:07	30	26.5	86	20	39.1		3618.9	414.00	14778.9
	1/27/2016 11:09	1/27/2016	11:09	34	30	86	24	49.0		88.1	10.08	14789.0
	1/27/2016 12:21	1/27/2016	12:21	33	28	84	25.5	51.6		3623.4	414.52	15203.5
	1/27/2016 12:22	1/27/2016	12:22		18					51.6	5.91	15209.4
SW-198 Event 17	1/29/2016 7:14	1/29/2016	7:14	30	30	50	0	0.0				15209.4
	1/29/2016 7:40	1/29/2016	7:40	29	29	50	9	18.0		234.3	26.80	15236.2
	1/29/2016 7:41	1/29/2016	7:41	31	30.5	50	11.5	23.6		20.8	2.38	15238.6
	1/29/2016 9:15	1/29/2016	9:15	30	28.5	62	16	32.0		2612.5	298.86	15537.5
	1/29/2016 9:16	1/29/2016	9:16	34	31.5	62	19	39.7		35.9	4.10	15541.6
	1/29/2016 10:48	1/29/2016	10:48	32	28	70	20.5	41.6		3741.8	428.07	15969.6
	1/29/2016 11:50	1/29/2016	11:50	31.5	26.5	74	24	48.3		2786.9	318.82	16288.5
	1/29/2016 11:51	1/29/2016	11:51		19					48.3	5.52	16294.0
Total CO ₂ Mass (lbs):											16294.0	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-199 Event 1	10/20/2015 9:52	10/20/2015	9:52	10	10	75	0	0.0				0
	10/20/2015 9:58	10/20/2015	9:58	10	11	75	0	0.0	0.0	0.00	0.0	
	10/20/2015 9:59	10/20/2015	9:59	18	19	75	0	0.0	0.0	0.00	0.0	
	10/20/2015 11:50	10/20/2015	11:50	19	19	80	0	0.0	0.0	0.00	0.0	
	10/20/2015 11:51	10/20/2015	11:51	22	22	80	0	0.0	0.0	0.00	0.0	
	10/20/2015 13:23	10/20/2015	13:23	22	22	80	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 13:25	10/20/2015	13:25	26	26.5	80	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 14:50	10/20/2015	14:50	26	26	80	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 14:52	10/20/2015	14:52	30	30	80	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 15:16	10/20/2015	15:16	30	30	80	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 15:18	10/20/2015	15:18	32	32	80	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 15:40	10/20/2015	15:40	32	32	82	0	0.0	0.0	0.00	0.00	0.0
	10/20/2015 17:29	10/20/2015	17:29	32	32	78	0	0.0	0.0	0.0	0.00	0.0
	10/20/2015 17:30	10/20/2015	17:30		19					0.0	0.00	0.0
SW-199 Event 2	10/22/2015 8:06	10/22/2015	8:06	22	22	70	0	0.0				0.0
	10/22/2015 8:14	10/22/2015	8:14	22	22	70	0	0.0	0.0	0.00	0.0	
	10/22/2015 8:15	10/22/2015	8:15	24	25	70	0	0.0	0.0	0.00	0.0	
	10/22/2015 8:24	10/22/2015	8:24	24	25	72	0	0.0	0.0	0.00	0.0	
	10/22/2015 8:25	10/22/2015	8:25	26	28	72	0	0.0	0.0	0.00	0.0	
	10/22/2015 8:35	10/22/2015	8:35	27	27	74	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 8:36	10/22/2015	8:36	29	31	74	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 8:54	10/22/2015	8:54	30	30.5	77	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 8:55	10/22/2015	8:55	32	32	77	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 9:19	10/22/2015	9:19	32	32	78	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 11:19	10/22/2015	11:19	31	31	84	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 11:20	10/22/2015	11:20	32	32	84	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 13:49	10/22/2015	13:49	32	32	84	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 14:42	10/22/2015	14:42	32	32	84	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 16:02	10/22/2015	16:02	32	32	79	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 16:32	10/22/2015	16:32	32	32	79	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 16:33	10/22/2015	16:33		30					0.0	0.00	0.0
SW-199 Event 3	10/28/2015 8:10	10/28/2015	8:10	28	29	74	0	0.0				0.0
	10/28/2015 8:20	10/28/2015	8:20	28	29	74	0	0.0	0.0	0.00	0.0	
	10/28/2015 8:21	10/28/2015	8:21	32	33	74	0	0.0	0.0	0.00	0.0	
	10/28/2015 8:55	10/28/2015	8:55	32	33	76	0	0.0	0.0	0.00	0.0	
	10/28/2015 10:33	10/28/2015	10:33	32	31	80	4	8.0	394.1	45.09	45.1	
	10/28/2015 10:35	10/28/2015	10:35	33	32	80	5	10.2	18.2	2.08	47.2	
	10/28/2015 11:57	10/28/2015	11:57	33	31.5	90	7	14.1	994.5	113.77	160.9	
	10/28/2015 14:02	10/28/2015	14:02	32	30.5	92	10	19.9	2123.4	242.92	403.9	
	10/28/2015 15:10	10/28/2015	15:10	32	30.5	87	10	20.0	1355.1	155.03	558.9	
	10/28/2015 15:11	10/28/2015	15:11	33	31.5	87	11.5	23.2	21.6	2.47	561.4	
	10/28/2015 16:51	10/28/2015	16:51	33	31	86	12	24.3	2373.6	271.54	832.9	
10/28/2015 16:52	10/28/2015	16:52		20				24.3	2.77	835.7		

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-199 Event 4	11/2/2015 9:15	11/2/2015	9:15	28	28	88	0	0.0			835.7
	11/2/2015 9:20	11/2/2015	9:20	30	30	88	0	0.0	0.0	0.00	835.7
	11/2/2015 9:27	11/2/2015	9:27	32	32	88	0	0.0	0.0	0.00	835.7
	11/2/2015 9:47	11/2/2015	9:47	31	30	88	4	7.9	79.0	9.03	844.7
	11/2/2015 10:16	11/2/2015	10:16	30	29.5	90	5	9.7	255.7	29.26	874.0
	11/2/2015 10:18	11/2/2015	10:18	33	32	90	7.5	15.1	24.8	2.84	876.8
	11/2/2015 10:45	11/2/2015	10:45	33	32	90	8	16.1	421.3	48.20	925.0
	11/2/2015 12:14	11/2/2015	12:14	32	30	96	11	21.8	1686.3	192.92	1117.9
	11/2/2015 12:15	11/2/2015	12:15	34	32	96	13	26.3	24.0	2.75	1120.7
	11/2/2015 13:54	11/2/2015	13:54	34	31	93	14	28.4	2708.0	309.80	1430.5
	11/2/2015 13:55	11/2/2015	13:55		21				28.4	3.25	1433.7
SW-199 Event 5	11/5/2015 7:30	11/5/2015	7:30	32	32	76	0	0.0			1433.7
	11/5/2015 7:41	11/5/2015	7:41	30	30	76	<2	0.0	0.0	0.00	1433.7
	11/5/2015 7:42	11/5/2015	7:42	32	32	76	4.5	9.1	4.5	0.52	1434.2
	11/5/2015 8:16	11/5/2015	8:16	32	31	76	7	14.1	394.6	45.15	1479.4
	11/5/2015 8:17	11/5/2015	8:17	33	32	76	9	18.4	16.2	1.86	1481.2
	11/5/2015 8:46	11/5/2015	8:46	33	31	78	10	20.4	561.6	64.24	1545.5
	11/5/2015 8:47	11/5/2015	8:47	34	32	78	11.5	23.7	22.0	2.52	1548.0
	11/5/2015 9:49	11/5/2015	9:49	34	31.5	79	13	26.7	1562.3	178.73	1726.7
	11/5/2015 10:46	11/5/2015	10:46	34	31	80	14	28.8	1581.4	180.91	1907.6
	11/5/2015 10:47	11/5/2015	10:47	35	32	80	15	31.1	29.9	3.43	1911.1
	11/5/2015 11:47	11/5/2015	11:47	35	31.5	84	16	33.1	1926.3	220.37	2131.4
	11/5/2015 12:31	11/5/2015	12:31	35	31	88	16	33.0	1452.7	166.19	2297.6
	11/5/2015 12:32	11/5/2015	12:32	36	32	88	17	35.4	34.2	3.91	2301.5
	11/5/2015 13:06	11/5/2015	13:06	35	31.5	84	17	35.1	1198.8	137.14	2438.7
	11/5/2015 14:03	11/5/2015	14:03	35	31.5	82	17	35.2	2005.3	229.40	2668.1
	11/5/2015 15:05	11/5/2015	15:05	35	31.5	80	17	35.3	2185.4	250.01	2918.1
	11/5/2015 16:04	11/5/2015	16:04	35	31	79	18	37.4	2143.9	245.26	3163.3
11/5/2015 16:05	11/5/2015	16:05		23				37.4	4.28	3167.6	
SW-199 Event 6	11/9/2015 12:18	11/9/2015	12:18	28	29	74	0	0.0			3167.6
	11/9/2015 12:19	11/9/2015	12:19	31	31	74	0	0.0	0.0	0.00	3167.6
	11/9/2015 12:33	11/9/2015	12:33	30	29	74	4	7.9	55.4	6.34	3174.0
	11/9/2015 12:35	11/9/2015	12:35	33	32	74	5	10.2	18.1	2.07	3176.0
	11/9/2015 14:14	11/9/2015	14:14	32	31	80	10	20.1	1501.4	171.76	3347.8
	11/9/2015 14:34	11/9/2015	14:34	32	31	80	10.5	21.1	412.2	47.16	3394.9
	11/9/2015 16:56	11/9/2015	16:56	32	31	76	11	22.2	3075.6	351.85	3746.8
	11/9/2015 16:58	11/9/2015	16:58		24				44.4	5.08	3751.9
SW-199 Event 7	11/12/2015 7:59	11/12/2015	7:59	27	27.5	70	0	0.0			3751.9
	11/12/2015 9:50	11/12/2015	9:50	25	25	82	4	7.4	410.4	46.95	3798.8
	11/12/2015 9:51	11/12/2015	9:51	33	32	82	10	20.3	13.8	1.58	3800.4
	11/12/2015 10:46	11/12/2015	10:46	33	31.5	84	10	20.2	1114.7	127.52	3927.9
	11/12/2015 12:22	11/12/2015	12:22	33	31	88	12	24.2	2133.8	244.11	4172.0
11/12/2015 12:23	11/12/2015	12:23		21				24.2	2.77	4174.8	
SW-199 Event 8	11/16/2015 7:50	11/16/2015	7:50	28	29	66	0	0.0			4174.8
	11/16/2015 8:21	11/16/2015	8:21	27	26	70	3.5	6.7	104.0	11.90	4186.7
	11/16/2015 8:22	11/16/2015	8:22	32	31	70	8	16.2	11.5	1.31	4188.0
	11/16/2015 9:41	11/16/2015	9:41	32	30	80	10	20.1	1435.9	164.27	4352.3
	11/16/2015 11:40	11/16/2015	11:40	29	28.5	86	12	23.2	2576.8	294.79	4647.1
	11/16/2015 11:42	11/16/2015	11:42	33	32	86	18	36.4	59.6	6.82	4653.9
	11/16/2015 14:07	11/16/2015	14:07	33	32	84	18	36.4	5279.8	604.01	5257.9

LCP Chemicals Site, Brunswick, GA
SW-199

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	11/16/2015 17:02	11/16/2015	17:02	36	31	74	20.5	43.2		6971.6	797.55	6055.4
	11/16/2015 17:03	11/16/2015	17:03		22					43.2	4.95	6060.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-199 Event 9	11/19/2015 7:40	11/19/2015	7:40	28	28	75	0	0.0				6060.4
	11/19/2015 8:06	11/19/2015	8:06	26	26.5	75	3	5.7	73.5	8.41	6068.8	
	11/19/2015 8:07	11/19/2015	8:07	32	31	75	8	16.2	10.9	1.25	6070.0	
	11/19/2015 9:47	11/19/2015	9:47	32	30	76	12	24.2	2019.4	231.02	6301.1	
	11/19/2015 10:42	11/19/2015	10:42	32	30	76	12	24.2	1332.3	152.41	6453.5	
	11/19/2015 12:03	11/19/2015	12:03	28	28	78	12.5	24.1	1955.7	223.74	6677.2	
	11/19/2015 12:07	11/19/2015	12:07	30	30	78	16	31.5	111.2	12.72	6689.9	
	11/19/2015 13:12	11/19/2015	13:12	34	30.5	78	16	32.9	2094.8	239.65	6929.6	
	11/19/2015 15:33	11/19/2015	15:33	34	30	76	17	35.1	4792.8	548.30	7477.9	
	11/19/2015 15:34	11/19/2015	15:34		23				35.1	4.01	7481.9	
SW-199 Event 10	11/20/2015 7:44	11/20/2015	7:44	27.5	27	64	0	0.0				7481.9
	11/20/2015 8:07	11/20/2015	8:07	26	26	68	3.5	6.6	76.4	8.74	7490.6	
	11/20/2015 8:09	11/20/2015	8:09	32	31.5	68	8	16.3	22.9	2.62	7493.3	
	11/20/2015 10:01	11/20/2015	10:01	29.5	29.5	79	12	23.5	2226.8	254.75	7748.0	
	11/20/2015 10:02	11/20/2015	10:02	32	32	79	16	32.2	27.8	3.19	7751.2	
	11/20/2015 11:35	11/20/2015	11:35	32	31	82	16.5	33.1	3037.4	347.48	8098.7	
	11/20/2015 12:25	11/20/2015	12:25	32	31	82	18	36.1	1731.1	198.03	8296.7	
	11/20/2015 12:26	11/20/2015	12:26		21				36.1	4.13	8300.8	
SW-199 Event 11	11/24/2015 7:26	11/24/2015	7:26	26	26	50	0	0.0	0.0	0.00	8300.8	
	11/24/2015 7:42	11/24/2015	7:42	25	25	52	0	0.0	0.0	0.00	8300.8	
	11/24/2015 7:43	11/24/2015	7:43	32	32	52	6	12.4	6.2	0.71	8301.5	
	11/24/2015 8:34	11/24/2015	8:34	32	30	60	10	20.5	839.2	96.00	8397.5	
	11/24/2015 10:10	11/24/2015	10:10	32	29.5	70	12	24.4	2153.8	246.39	8643.9	
	11/24/2015 10:11	11/24/2015	10:11	34	31	70	16	33.2	28.8	3.29	8647.2	
	11/24/2015 11:11	11/24/2015	11:11	34	31	72	16	33.1	1989.2	227.56	8874.8	
	11/24/2015 11:12	11/24/2015	11:12		22.5				33.1	3.79	8878.6	
SW-199 Event 12	12/1/2015 7:47	12/1/2015	7:47	30	30	68	0	0.0				8878.6
	12/1/2015 8:32	12/1/2015	8:32	28	27.5	68	5	9.7	218.7	25.02	8903.6	
	12/1/2015 8:33	12/1/2015	8:33	30	29.5	68	8	15.9	12.8	1.47	8905.1	
	12/1/2015 9:44	12/1/2015	9:44	28	28.5	72	9.5	18.4	1218.2	139.36	9044.4	
	12/1/2015 11:20	12/1/2015	11:20	28	28	84	11	21.1	1893.8	216.65	9261.1	
	12/1/2015 12:36	12/1/2015	12:36	28	27.5	87	12	22.9	1670.7	191.13	9452.2	
	12/1/2015 12:37	12/1/2015	12:37		19				22.9	2.62	9454.8	
SW-199 Event 13	12/8/2015 11:51	12/8/2015	11:51	35	34	80	0	0.0				9454.8
	12/8/2015 13:03	12/8/2015	13:03	32	31	82	14	28.1	1011.5	115.72	9570.5	
	12/8/2015 15:18	12/8/2015	15:18	32	31	78	14	28.2	3800.5	434.78	10005.3	
	12/8/2015 16:55	12/8/2015	16:55	30	29	70	16	31.8	2909.0	332.79	10338.1	
	12/8/2015 16:56	12/8/2015	16:56		20				31.8	3.63	10341.7	
SW-199 Event 14	12/15/2015 7:50	12/15/2015	7:50	26	27	66	0	0.0				10341.7
	12/15/2015 8:19	12/15/2015	8:19	25	25	68	<2	0.0	0.0	0.00	10341.7	
	12/15/2015 8:21	12/15/2015	8:21	32	31	68	9	18.3	18.3	2.09	10343.8	
	12/15/2015 10:10	12/15/2015	10:10	30	29	82	12	23.6	2281.7	261.02	10604.9	
	12/15/2015 10:11	12/15/2015	10:11	34	32.5	82	16	32.8	28.2	3.22	10608.1	
	12/15/2015 11:53	12/15/2015	11:53	33.5	32.5	87	18	36.5	3536.3	404.55	11012.6	
	12/15/2015 12:27	12/15/2015	12:27	33.5	31.5	89	18.5	37.5	1258.3	143.95	11156.6	
	12/15/2015 12:28	12/15/2015	12:28		21				37.5	4.29	11160.9	
SW-199 Event 15	1/8/2016 13:09	1/8/2016	13:09	30	30	70	0	0.0				11160.9
	1/8/2016 14:34	1/8/2016	14:34	27.5	27.5	70	6	11.6	491.8	56.26	11217.1	
	1/8/2016 14:35	1/8/2016	14:35	33	33	70	12.5	25.7	18.6	2.13	11219.3	
	1/8/2016 15:42	1/8/2016	15:42	32.5	32	70	15.5	31.6	1919.4	219.58	11438.9	

LCP Chemicals Site, Brunswick, GA
SW-199

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/8/2016 17:03	1/8/2016	17:03	32	31	67	16	32.6	2601.1	297.56	11736.4
	1/8/2016 17:04	1/8/2016	17:04		21				32.6	3.73	11740.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-199 Event 16	1/26/2016 13:52	1/26/2016	13:52	31	31	78	0	0.0			11740.1
	1/26/2016 14:22	1/26/2016	14:22	29	30	78	4	7.8	116.9	13.37	11753.5
	1/26/2016 14:23	1/26/2016	14:23	31.5	32.5	78	6	12.0	9.9	1.13	11754.6
	1/26/2016 15:32	1/26/2016	15:32	31	31.5	76	9.5	19.0	1069.2	122.31	11877.0
	1/26/2016 16:30	1/26/2016	16:30	30	30	73	11.5	22.8	1210.4	138.47	12015.4
	1/26/2016 16:31	1/26/2016	16:31		22.5				22.8	2.60	12018.0
Total CO ₂ Mass (lbs):											12018.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-200 Event 1	10/20/2015 9:57	10/20/2015	9:57	11	12	74	0	0.0			0
	10/20/2015 10:20	10/20/2015	10:20	11	13	76	0	0.0	0.0	0.00	0.0
	10/20/2015 10:21	10/20/2015	10:21	20	21	76	0	0.0	0.0	0.00	0.0
	10/20/2015 11:54	10/20/2015	11:54	19	20	80	0	0.0	0.0	0.00	0.0
	10/20/2015 11:56	10/20/2015	11:56	22	23	80	0	0.0	0.0	0.00	0.0
	10/20/2015 13:30	10/20/2015	13:30	22	23	80	0	0.0	0.0	0.00	0.0
	10/20/2015 13:32	10/20/2015	13:32	26	28	80	0	0.0	0.0	0.00	0.0
	10/20/2015 14:54	10/20/2015	14:54	26	27.5	80	>2	0.0	0.0	0.00	0.0
	10/20/2015 14:56	10/20/2015	14:56	29	29	80	4	7.8	7.8	0.89	0.9
	10/20/2015 15:19	10/20/2015	15:19	28	29	80	4	7.7	177.8	20.34	21.2
	10/20/2015 15:22	10/20/2015	15:22	32	32	80	7	14.1	32.6	3.73	25.0
	10/20/2015 15:41	10/20/2015	15:41	32	32	82	7	14.0	267.2	30.57	55.5
	10/20/2015 15:42	10/20/2015	15:42	35	34	82	9	18.6	16.3	1.87	57.4
	10/20/2015 17:30	10/20/2015	17:30	35	34	78	9.5	19.8	2073.4	237.20	294.6
10/20/2015 17:31	10/20/2015	17:31		26				19.8	2.26	296.9	
SW-200 Event 2	10/30/2015 7:25	10/30/2015	7:25	26	27	68	0	0.0			296.9
	10/30/2015 7:31	10/30/2015	7:31	34	34	68	4	8.3	24.9	2.85	299.7
	10/30/2015 7:37	10/30/2015	7:37	34	34	68	6	12.5	62.3	7.13	306.9
	10/30/2015 9:04	10/30/2015	9:04	33	33	74	7.5	15.3	1209.4	138.35	445.2
	10/30/2015 9:07	10/30/2015	9:07	35	34.5	74	10	20.9	54.3	6.21	451.4
	10/30/2015 10:04	10/30/2015	10:04	35	34	80	10	20.8	1186.4	135.73	587.1
	10/30/2015 11:01	10/30/2015	11:01	34	33	86	10	20.4	1173.6	134.26	721.4
	10/30/2015 11:02	10/30/2015	11:02		27				20.4	2.34	723.7
	SW-200 Event 3	11/4/2015 11:34	11/4/2015	11:34	34	36	82	0	0.0		
11/4/2015 11:35		11/4/2015	11:35	32	32	82	<2	0.0	0.0	0.00	723.7
11/4/2015 11:42		11/4/2015	11:42	31	32	82	4	7.9	27.8	3.18	726.9
11/4/2015 11:44		11/4/2015	11:44	33	34	82	6.5	13.2	21.1	2.42	729.3
11/4/2015 12:03		11/4/2015	12:03	33	33	84	6.5	13.2	250.3	28.63	758.0
11/4/2015 12:06		11/4/2015	12:06	34	34	84	8	16.4	44.3	5.07	763.0
11/4/2015 12:29		11/4/2015	12:29	34	34	83	8	16.4	376.7	43.09	806.1
11/4/2015 13:28		11/4/2015	13:28	34	34	84	8	16.4	966.3	110.54	916.7
11/4/2015 14:25		11/4/2015	14:25	34	34	81	8	16.4	934.4	106.90	1023.6
11/4/2015 15:25		11/4/2015	15:25	34	34	80	9	18.5	1047.1	119.79	1143.4
11/4/2015 16:10		11/4/2015	16:10	34	33.5	78	9	18.5	832.7	95.26	1238.6
11/4/2015 16:13		11/4/2015	16:13		28				55.6	6.36	1245.0
SW-200 Event 4		11/11/2015 8:00	11/11/2015	8:00	31	31	63	0	0.0		
	11/11/2015 8:22	11/11/2015	8:22	30	29.5	64	4	8.0	87.9	10.05	1255.0
	11/11/2015 8:23	11/11/2015	8:23	35	35	64	10	21.1	14.5	1.66	1256.7
	11/11/2015 10:49	11/11/2015	10:49	35	34	79	9	18.7	2903.7	332.19	1588.9
	11/11/2015 11:36	11/11/2015	11:36	34	34	81	9	18.5	873.4	99.92	1688.8
	11/11/2015 13:00	11/11/2015	13:00	34	34	86	9	18.4	1547.7	177.06	1865.9
	11/11/2015 13:01	11/11/2015	13:01		28				18.4	2.10	1868.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-200 Event 5	11/13/2015 7:13	11/13/2015	7:13	27	28	62	0	0.0				1868.0
	11/13/2015 7:16	11/13/2015	7:16	32	33	62	0	0.0	0.0	0.00		1868.0
	11/13/2015 7:36	11/13/2015	7:36	30	30.5	64	6	12.0	119.9	13.71		1881.7
	11/13/2015 7:37	11/13/2015	7:37	34	34	64	9.5	19.8	15.9	1.82		1883.5
	11/13/2015 8:39	11/13/2015	8:39	34	33	69	10	20.8	1258.1	143.92		2027.4
	11/13/2015 10:35	11/13/2015	10:35	34	32	80	10	20.5	2395.5	274.05		2301.5
	11/13/2015 10:36	11/13/2015	10:36	36	34	80	12	25.2	22.8	2.61		2304.1
	11/13/2015 11:39	11/13/2015	11:39	35	34	82	11	22.8	1510.2	172.77		2476.8
	11/13/2015 11:40	11/13/2015	11:40		29				22.8	2.61		2479.4
SW-200 Event 6	11/18/2015 8:02	11/18/2015	8:02	26	28	76	0	0.0				2479.4
	11/18/2015 8:37	11/18/2015	8:37	26	27	80	0	0.0	0.0	0.00		2479.4
	11/18/2015 8:38	11/18/2015	8:38	34	35	80	10	20.5	10.3	1.17		2480.6
	11/18/2015 11:10	11/18/2015	11:10	34	34	81	10	20.5	3120.7	357.01		2837.6
	11/18/2015 12:14	11/18/2015	12:14	34	34	84	10	20.5	1311.5	150.03		2987.7
	11/18/2015 12:42	11/18/2015	12:42	34	34	84	10	20.5	572.9	65.55		3053.2
	11/18/2015 12:44	11/18/2015	12:44		28				40.9	4.68		3057.9
	11/21/2015 12:26	11/21/2015	12:26	26	27	78	0	0.0				3057.9
SW-200 Event 7	11/21/2015 12:56	11/21/2015	12:56	26	27	78	<2	0.0	0.0	0.00		3057.9
	11/21/2015 12:57	11/21/2015	12:57	34	34	78	8	16.5	8.2	0.94		3058.8
	11/21/2015 13:59	11/21/2015	13:59	34	33.5	80	10	20.5	1147.2	131.24		3190.1
	11/21/2015 14:03	11/21/2015	14:03	36	35	80	12	25.2	91.4	10.46		3200.5
	11/21/2015 14:51	11/21/2015	14:51	36	34.5	76	12	25.3	1209.9	138.41		3338.9
	11/21/2015 16:05	11/21/2015	16:05	35	33	74	12	25.0	1861.3	212.93		3551.9
	11/21/2015 17:06	11/21/2015	17:06	36	34	72	14	29.6	1666.2	190.61		3742.5
	11/21/2015 17:07	11/21/2015	17:07		28.5				29.6	3.38		3745.9
	11/23/2015 7:47	11/23/2015	7:47	27	27	52	0	0.0				3745.9
SW-200 Event 8	11/23/2015 8:28	11/23/2015	8:28	26	27	54	3.5	6.7	138.0	15.79		3761.7
	11/23/2015 8:29	11/23/2015	8:29	34	33	54	11.5	24.2	15.5	1.77		3763.4
	11/23/2015 9:58	11/23/2015	9:58	33	32.5	64	10.5	21.7	2043.1	233.74		3997.2
	11/23/2015 9:59	11/23/2015	9:59	36	35	64	16	34.1	27.9	3.19		4000.4
	11/23/2015 12:18	11/23/2015	12:18	37	36	72	15	32.0	4592.6	525.40		4525.7
	11/23/2015 13:00	11/23/2015	13:00	36.5	36	74	14.5	30.7	1317.5	150.72		4676.5
	11/23/2015 13:01	11/23/2015	13:01		29.5				30.7	3.52		4680.0
	11/30/2015 12:20	11/30/2015	12:20	31	32	89	0	0.0				4680.0
SW-200 Event 9	11/30/2015 12:39	11/30/2015	12:39	30	29.5	90	5	9.7	92.5	10.59		4690.6
	11/30/2015 12:40	11/30/2015	12:40	34	33	90	10	20.3	15.0	1.72		4692.3
	11/30/2015 14:18	11/30/2015	14:18	34	33	90	10	20.3	1994.0	228.11		4920.4
	11/30/2015 16:16	11/30/2015	16:16	34	32.5	81	10	20.5	2411.2	275.84		5196.2
	11/30/2015 16:59	11/30/2015	16:59	34	33	78	10	20.6	883.7	101.09		5297.3
	11/30/2015 17:00	11/30/2015	17:00		29.5				20.6	2.35		5299.7
	12/4/2015 7:43	12/4/2015	7:43	30.5	31	58	0	0.0				5299.7
SW-200 Event 10	12/4/2015 8:32	12/4/2015	8:32	29	29	58	6.5	12.9	316.4	36.19		5335.9
	12/4/2015 8:33	12/4/2015	8:33	32	32	58	11	22.6	17.8	2.03		5337.9
	12/4/2015 9:43	12/4/2015	9:43	32	32	66	11	22.4	1575.8	180.28		5518.2
	12/4/2015 9:44	12/4/2015	9:44	34	34	66	14	29.2	25.8	2.95		5521.1
	12/4/2015 10:58	12/4/2015	10:58	33	32.5	70	12	24.6	1989.9	227.64		5748.8
	12/4/2015 12:01	12/4/2015	12:01	32.5	32.5	70	12	24.5	1547.5	177.03		5925.8
	12/4/2015 12:02	12/4/2015	12:02		28.5				24.5	2.80		5928.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)	
SW-200 Event 11	12/7/2015 7:50	12/7/2015	7:50	34	34	60	10	20.9			5928.6	
	12/7/2015 8:36	12/7/2015	8:36	32	32	60	12	24.6	1047.8	119.86	6048.5	
	12/7/2015 9:43	12/7/2015	9:43	32	32	70	12	24.4	1640.6	187.68	6236.2	
	12/7/2015 10:49	12/7/2015	10:49	34	34	70	12	24.9	1625.4	185.94	6422.1	
	12/7/2015 12:07	12/7/2015	12:07	34	34	72	12	24.8	1939.5	221.88	6644.0	
	12/7/2015 12:08	12/7/2015	12:08		25				24.8	2.84	6646.8	
SW-200 Event 12	12/11/2015 7:40	12/11/2015	7:40	34	34	52	8	16.9			6646.8	
	12/11/2015 8:05	12/11/2015	8:05	32	32	52	12	24.8	521.2	59.63	6706.4	
	12/11/2015 9:01	12/11/2015	9:01	31	31	70	12	24.1	1369.3	156.65	6863.1	
	12/11/2015 9:02	12/11/2015	9:02	34	34	70	12	24.9	24.5	2.80	6865.9	
	12/11/2015 10:48	12/11/2015	10:48	31	31	78	12	23.9	2586.5	295.90	7161.8	
	12/11/2015 10:49	12/11/2015	10:49		25				23.9	2.74	7164.5	
SW-200 Event 13	12/18/2015 7:47	12/18/2015	7:47	27.5	26.5	69	0	0.0			7164.5	
	12/18/2015 8:20	12/18/2015	8:20	26.5	26.5	68	3	5.7	94.5	10.81	7175.3	
	12/18/2015 8:21	12/18/2015	8:21	35	33.5	68	12	25.2	15.5	1.77	7177.1	
	12/18/2015 9:32	12/18/2015	9:32	35	32	67	12.5	26.3	1827.2	209.03	7386.1	
	12/18/2015 10:17	12/18/2015	10:17	34	31.5	72	12	24.8	1150.1	131.57	7517.7	
	12/18/2015 11:28	12/18/2015	11:28	34	32	74	11	22.7	1688.6	193.18	7710.9	
	12/18/2015 12:40	12/18/2015	12:40	33	31	74	10.5	21.5	1590.9	182.00	7892.9	
	12/18/2015 13:22	12/18/2015	13:22	33	30.5	73	10	20.5	880.5	100.73	7993.6	
	12/18/2015 14:30	12/18/2015	14:30	42	41	70	24	53.8	2524.3	288.78	8282.4	
	12/18/2015 14:31	12/18/2015	14:31		32				53.8	6.15	8288.6	
	Total CO ₂ Mass (lbs):											8288.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-201 Event 1	10/21/2015 9:23	10/21/2015	9:23	22	22	80	0	0.0				0
	10/21/2015 9:32	10/21/2015	9:32	22	23	80	0	0.0		0.0	0.00	0.0
	10/21/2015 9:33	10/21/2015	9:33	24	26	80	0	0.0		0.0	0.00	0.0
	10/21/2015 9:52	10/21/2015	9:52	24	26	80	0	0.0		0.0	0.00	0.0
	10/21/2015 9:53	10/21/2015	9:53	26	28	80	0	0.0		0.0	0.00	0.0
	10/21/2015 10:02	10/21/2015	10:02	26	28.5	80	0	0.0		0.0	0.00	0.0
	10/21/2015 10:03	10/21/2015	10:03	28	29	80	0	0.0		0.0	0.00	0.0
	10/21/2015 10:19	10/21/2015	10:19	28	29	82	0	0.0		0.0	0.00	0.0
	10/21/2015 10:20	10/21/2015	10:20	30	31.5	82	0	0.0		0.0	0.00	0.0
	10/21/2015 10:33	10/21/2015	10:33	31	32	83	0	0.0		0.0	0.00	0.0
	10/21/2015 10:34	10/21/2015	10:34	33	34	83	<2	0.0		0.0	0.00	0.0
	10/21/2015 10:43	10/21/2015	10:43	34	34	84	<2	0.0		0.0	0.00	0.0
	10/21/2015 10:44	10/21/2015	10:44	36	36.5	84	4	8.4		4.2	0.48	0.5
	10/21/2015 12:47	10/21/2015	12:47	36	36	86	6	12.5		1282.9	146.77	147.2
	10/21/2015 13:48	10/21/2015	13:48	36	36	87	7	14.6		826.1	94.50	241.7
	10/21/2015 15:02	10/21/2015	15:02	36	35.5	82	7.5	15.7		1120.0	128.13	369.9
10/21/2015 16:06	10/21/2015	16:06	36	36	82	8	16.7		1037.9	118.73	488.6	
10/21/2015 17:11	10/21/2015	17:11	36	35.5	78	8	16.8		1090.2	124.72	613.3	
10/21/2015 17:12	10/21/2015	17:12		29					16.8	1.92	615.2	
SW-201 Event 2	10/29/2015 7:54	10/29/2015	7:54	25	26.5	70	0	0.0				615.2
	10/29/2015 8:11	10/29/2015	8:11	25	26	70	0	0.0		0.0	0.00	615.2
	10/29/2015 8:12	10/29/2015	8:12	34	35	70	0	0.0		0.0	0.00	615.2
	10/29/2015 9:20	10/29/2015	9:20	34	35	72	<2	0.0		0.0	0.00	615.2
	10/29/2015 10:50	10/29/2015	10:50	34	35	84	4	8.2		368.3	42.14	657.4
	10/29/2015 11:58	10/29/2015	11:58	34	35	91	4	8.1		554.7	63.46	720.8
	10/29/2015 13:47	10/29/2015	13:47	34	34	90	5	10.2		997.6	114.12	835.0
	10/29/2015 15:04	10/29/2015	15:04	34	34	90	6	12.2		861.7	98.58	933.5
	10/29/2015 15:10	10/29/2015	15:10	36	36	90	7	14.5		80.2	9.18	942.7
	10/29/2015 16:14	10/29/2015	16:14	36	36	90	8	16.6		996.8	114.03	1056.8
	10/29/2015 16:51	10/29/2015	16:51	36	35.5	88	8	16.6		615.3	70.39	1127.1
	10/29/2015 16:52	10/29/2015	16:52		27					16.6	1.90	1129.0
	SW-201 Event 3	11/3/2015 7:42	11/3/2015	7:42	30	31	78	0	0.0			
11/3/2015 7:55		11/3/2015	7:55	29	30	78	0	0.0		0.0	0.00	1129.0
11/3/2015 7:56		11/3/2015	7:56	35	36	78	0	0.0		0.0	0.00	1129.0
11/3/2015 8:27		11/3/2015	8:27	36	36	80	3	6.3		97.5	11.15	1140.2
11/3/2015 8:58		11/3/2015	8:58	36	36	80	3	6.3		195.0	22.30	1162.5
11/3/2015 9:53		11/3/2015	9:53	36	35	82	4	8.4		403.1	46.12	1208.6
11/3/2015 9:54		11/3/2015	9:54	37	35.5	82	4	8.5		8.4	0.96	1209.6
11/3/2015 10:53		11/3/2015	10:53	35	35	88	4	8.2		492.4	56.33	1265.9
11/3/2015 10:55		11/3/2015	10:55	36	36	88	5	10.4		18.6	2.13	1268.0
11/3/2015 11:32		11/3/2015	11:32	36	36	90	5	10.4		384.5	43.99	1312.0
11/3/2015 12:42		11/3/2015	12:42	36	35.5	95	5	10.3		725.1	82.95	1395.0
11/3/2015 13:41		11/3/2015	13:41	36	35.5	90	6	12.5		672.4	76.93	1471.9
11/3/2015 14:39		11/3/2015	14:39	35	35	96	6	12.3		717.0	82.03	1553.9
11/3/2015 14:40	11/3/2015	14:40		28					12.3	1.40	1555.3	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-201 Event 4	11/10/2015 8:07	11/10/2015	8:07	34	33	66	0	0.0				1555.3
	11/10/2015 8:21	11/10/2015	8:21	33	32.5	66	0	0.0	0.0	0.00		1555.3
	11/10/2015 8:22	11/10/2015	8:22	36	36	66	4	8.5	4.3	0.49		1555.8
	11/10/2015 9:35	11/10/2015	9:35	35	36	70	4	8.4	616.3	70.50		1626.3
	11/10/2015 10:40	11/10/2015	10:40	36	36	72	4.5	9.5	581.4	66.52		1692.9
	11/10/2015 12:08	11/10/2015	12:08	35	35	75	6	12.5	968.9	110.84		1803.7
	11/10/2015 12:23	11/10/2015	12:23		30				187.7	21.47		1825.2
SW-201 Event 5	11/11/2015 13:07	11/11/2015	13:07	30	30.5	86	0	0.0				1825.2
	11/11/2015 13:13	11/11/2015	13:13	29	31	84	0	0.0	0.0	0.00		1825.2
	11/11/2015 13:15	11/11/2015	13:15	35	36	84	0	0.0	0.0	0.00		1825.2
	11/11/2015 14:50	11/11/2015	14:50	34	33.5	86	4	8.2	388.0	44.39		1869.6
	11/11/2015 14:51	11/11/2015	14:51	36	36	86	8	16.7	12.4	1.42		1871.0
	11/11/2015 15:56	11/11/2015	15:56	36	36	88	8	16.6	1082.9	123.88		1994.9
	11/11/2015 17:02	11/11/2015	17:02	36	35	79	7	14.7	1034.0	118.29		2113.2
11/11/2015 17:03	11/11/2015	17:03		29				14.7	1.68		2114.8	
SW-201 Event 6	11/16/2015 7:54	11/16/2015	7:54	27	29	68	0	0.0				2114.8
	11/16/2015 8:15	11/16/2015	8:15	26	27	70	<2	0.0	0.0	0.00		2114.8
	11/16/2015 8:17	11/16/2015	8:17	31	32	70	4.5	9.0	9.0	1.03		2115.9
	11/16/2015 9:38	11/16/2015	9:38	31	31	80	5	9.9	768.8	87.95		2203.8
	11/16/2015 11:42	11/16/2015	11:42	31	29.5	86	6	11.9	1352.2	154.69		2358.5
	11/16/2015 11:46	11/16/2015	11:46	37	36	86	13	27.4	78.5	8.98		2367.5
	11/16/2015 14:06	11/16/2015	14:06	38	36	84	11	23.4	3555.8	406.78		2774.3
11/16/2015 14:07	11/16/2015	14:07		27				23.4	2.68		2776.9	
SW-201 Event 7	11/18/2015 12:47	11/18/2015	12:47	27	28.5	82	0	0.0				2776.9
	11/18/2015 13:25	11/18/2015	13:25	27	28	80	0	0.0	0.0	0.00		2776.9
	11/18/2015 13:27	11/18/2015	13:27	35	36.5	80	4	8.3	8.3	0.95		2777.9
	11/18/2015 15:21	11/18/2015	15:21	35	36	77	6.5	13.5	1244.3	142.35		2920.2
	11/18/2015 17:05	11/18/2015	17:05	35	35	75	8	16.7	1571.1	179.73		3100.0
	11/18/2015 17:06	11/18/2015	17:06		29				16.7	1.91		3101.9
SW-201 Event 8	11/20/2015 12:33	11/20/2015	12:33	28.5	29	82	0	0.0				3101.9
	11/20/2015 12:50	11/20/2015	12:50	28	28	81	0	0.0	0.0	0.00		3101.9
	11/20/2015 12:52	11/20/2015	12:52	36	36	81	7	14.7	14.7	1.68		3103.6
	11/20/2015 15:32	11/20/2015	15:32	34	34	79	10.5	21.6	2900.0	331.76		3435.3
	11/20/2015 15:35	11/20/2015	15:35	36	36	79	14	29.4	76.5	8.75		3444.1
	11/20/2015 17:10	11/20/2015	17:10	37	35	71	14	29.9	2815.9	322.14		3766.2
	11/20/2015 17:11	11/20/2015	17:11		28.5				29.9	3.42		3769.6
SW-201 Event 9	12/2/2015 7:58	12/2/2015	7:58	34	34.5	68	0	0.0				3769.6
	12/2/2015 8:32	12/2/2015	8:32	32	32	70	5	10.2	172.6	19.74		3789.4
	12/2/2015 8:33	12/2/2015	8:33	35	35.5	70	8	16.8	13.5	1.54		3790.9
	12/2/2015 11:50	12/2/2015	11:50	35	35	86	9	18.6	3480.7	398.19		4189.1
	12/2/2015 13:05	12/2/2015	13:05	35	34	86	10	20.6	1470.3	168.20		4357.3
	12/2/2015 13:07	12/2/2015	13:07		30				41.3	4.72		4362.0
SW-201 Event 10	12/9/2015 7:34	12/9/2015	7:34	35	35	52	0	0.0				4362.0
	12/9/2015 7:59	12/9/2015	7:59	34	34	52	4	8.4	105.6	12.08		4374.1
	12/9/2015 9:35	12/9/2015	9:35	34	34	72	4.5	9.3	852.6	97.54		4471.6
	12/9/2015 11:13	12/9/2015	11:13	33	33	78	4.5	9.2	905.5	103.59		4575.2
	12/9/2015 11:13	12/9/2015	11:13	36	36	78	10	21.0	0.0	0.00		4575.2
	12/9/2015 12:27	12/9/2015	12:27	36	36	78	10	21.0	1554.4	177.82		4753.0
	12/9/2015 12:28	12/9/2015	12:28		29				21.0	2.40		4755.5

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-201 Event 11	12/16/2015 12:48	12/16/2015	12:48	32	32	81	0	0.0				4755.5
	12/16/2015 13:07	12/16/2015	13:07	31	31	81	<2	0.0	0.0	0.00		4755.5
	12/16/2015 13:08	12/16/2015	13:08	35	35	81	6	12.4	6.2	0.71		4756.2
	12/16/2015 14:53	12/16/2015	14:53	35	34.5	78	7	14.6	1417.3	162.14		4918.3
	12/16/2015 16:07	12/16/2015	16:07	38	37	76	8.5	18.2	1213.6	138.84		5057.1
	12/16/2015 17:01	12/16/2015	17:01	38	36.5	74	10	21.5	1073.2	122.78		5179.9
	12/16/2015 17:02	12/16/2015	17:02		31				21.5	2.46		5182.4
SW-201 Event 12	12/21/2015 7:46	12/21/2015	7:46	30	30.5	62	0	0.0				5182.4
	12/21/2015 8:13	12/21/2015	8:13	30	29.5	66	<2	0.0	0.0	0.00		5182.4
	12/21/2015 8:14	12/21/2015	8:14	35	35.5	66	6	12.6	6.3	0.72		5183.1
	12/21/2015 9:35	12/21/2015	9:35	35	35	72	7	14.6	1104.2	126.32		5309.4
	12/21/2015 11:51	12/21/2015	11:51	35	35	84	8.5	17.6	2190.6	250.60		5560.0
	12/21/2015 12:59	12/21/2015	12:59	35	33	87	9	18.6	1228.3	140.52		5700.5
	12/21/2015 14:06	12/21/2015	14:06	34	33	80	8.5	17.5	1206.5	138.02		5838.6
	12/21/2015 15:06	12/21/2015	15:06	34	32	79	8.5	17.5	1048.1	119.90		5958.5
	12/21/2015 15:58	12/21/2015	15:58	34	32	77	8.5	17.5	909.7	104.06		6062.5
	12/21/2015 17:07	12/21/2015	17:07	36	33.5	74	11	23.2	1404.4	160.66		6223.2
	12/21/2015 17:08	12/21/2015	17:08		29				23.2	2.65		6225.8
SW-201 Event 13	1/7/2016 7:45	1/7/2016	7:45	26	24	55	0	0.0				6225.8
	1/7/2016 8:19	1/7/2016	8:19	20	20	56	0	0.0	0.0	0.00		6225.8
	1/7/2016 8:20	1/7/2016	8:20	35	35	56	3.5	7.4	3.7	0.43		6226.3
	1/7/2016 10:14	1/7/2016	10:14	36	36	61	5	10.7	1032.7	118.14		6344.4
	1/7/2016 11:36	1/7/2016	11:36	35	35.5	65	5.5	11.6	912.8	104.42		6448.8
	1/7/2016 12:30	1/7/2016	12:30	35	35.5	67	5.5	11.6	624.9	71.48		6520.3
	1/7/2016 12:31	1/7/2016	12:31		31				11.6	1.32		6521.6
SW-201 Event 14	1/8/2016 13:09	1/8/2016	13:09	30	30	70	0	0.0				6521.6
	1/8/2016 14:34	1/8/2016	14:34	27.5	27.5	70	6	11.6	491.8	56.26		6577.9
	1/8/2016 14:35	1/8/2016	14:35	33	33	70	12.5	25.7	18.6	2.13		6580.0
	1/8/2016 15:42	1/8/2016	15:42	32.5	32	70	15.5	31.6	1919.4	219.58		6799.6
	1/8/2016 17:03	1/8/2016	17:03	32	31	67	16	32.6	2601.1	297.56		7097.2
	1/8/2016 17:04	1/8/2016	17:04		21				32.6	3.73		7100.9
SW-201 Event 15	1/12/2016 12:27	1/12/2016	12:27	31	31	72	0	0.0				7100.9
	1/12/2016 12:49	1/12/2016	12:49	30	30.5	73	0	0.0	0.0	0.00		7100.9
	1/12/2016 12:50	1/12/2016	12:50	35	35	73	4	8.4	4.2	0.48		7101.4
	1/12/2016 14:34	1/12/2016	14:34	35	35	70	6.5	13.6	1142.9	130.75		7232.1
	1/12/2016 16:11	1/12/2016	16:11	36	35	69	6.5	13.8	1328.7	152.00		7384.1
	1/12/2016 17:01	1/12/2016	17:01	36	35	67	6.5	13.8	689.4	78.86		7463.0
	1/12/2016 17:02	1/12/2016	17:02		31				13.8	1.58		7464.6
SW-201 Event 16	1/14/2016 12:30	1/14/2016	12:30	30	30	72	0	0.0				7464.6
	1/14/2016 13:00	1/14/2016	13:00	28.5	29	70	0	0.0	0.0	0.00		7464.6
	1/14/2016 13:01	1/14/2016	13:01	36	36	70	7	14.8	7.4	0.85		7465.4
	1/14/2016 14:44	1/14/2016	14:44	36	36	68	8	17.0	1637.1	187.28		7652.7
	1/14/2016 16:12	1/14/2016	16:12	37	35	64	8	17.2	1503.7	172.03		7824.7
	1/14/2016 16:55	1/14/2016	16:55	36.5	35	61	8.5	18.2	762.2	87.20		7911.9
	1/14/2016 16:56	1/14/2016	16:56		31				18.2	2.09		7914.0
SW-201 Event 17	1/19/2016 11:19	1/19/2016	11:19	30.5	30	61	0	0.0				7914.0
	1/19/2016 12:12	1/19/2016	12:12	29	29.5	64	<2	0.0	0.0	0.00		7914.0
	1/19/2016 12:13	1/19/2016	12:13	36	36	64	7	14.9	7.5	0.85		7914.9
	1/19/2016 13:54	1/19/2016	13:54	36.5	36	63	7.5	16.1	1564.2	178.94		8093.8
	1/19/2016 16:00	1/19/2016	16:00	36.5	35.5	63	8	17.1	2092.0	239.32		8333.1

LCP Chemicals Site, Brunswick, GA
SW-201

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/19/2016 16:59	1/19/2016	16:59	36.5	35.5	62	8	17.2		1011.7	115.74	8448.9
	1/19/2016 17:00	1/19/2016	17:00		32					17.2	1.96	8450.8

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-201 Event 18	1/25/2016 12:36	1/25/2016	12:36	31	31	78	0	0.0			8450.8
	1/25/2016 12:40	1/25/2016	12:40	36	36	78	0	0.0	0.0	0.00	8450.8
	1/25/2016 14:16	1/25/2016	14:16	36	36	73	7	14.8	709.2	81.13	8532.0
	1/25/2016 16:11	1/25/2016	16:11	36	36	70	7	14.8	1701.6	194.67	8726.6
	1/25/2016 16:12	1/25/2016	16:12		30				14.8	1.70	8728.3
Total CO ₂ Mass (lbs):											8728.3

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-202 Event 1	10/22/2015 8:08	10/22/2015	8:08	21	22	70	0	0.0				0
	10/22/2015 8:16	10/22/2015	8:16	21	23	70	0	0.0		0.0	0.00	0.0
	10/22/2015 8:17	10/22/2015	8:17	23	25	70	0	0.0		0.0	0.00	0.0
	10/22/2015 8:27	10/22/2015	8:27	22	24	72	0	0.0		0.0	0.00	0.0
	10/22/2015 8:28	10/22/2015	8:28	24	26	72	0	0.0		0.0	0.00	0.0
	10/22/2015 8:37	10/22/2015	8:37	24	26	74	0	0.0		0.0	0.00	0.0
	10/22/2015 8:39	10/22/2015	8:39	26	29	74	0	0.0		0.0	0.00	0.0
	10/22/2015 8:56	10/22/2015	8:56	26	28	77	0	0.0		0.0	0.00	0.0
	10/22/2015 8:56	10/22/2015	8:56	28	30	77	0	0.0		0.0	0.00	0.0
	10/22/2015 9:14	10/22/2015	9:14	28	29	78	0	0.0		0.0	0.00	0.0
	10/22/2015 9:15	10/22/2015	9:15	30	31	78	0	0.0		0.0	0.00	0.0
	10/22/2015 11:23	10/22/2015	11:23	30	31	84	0	0.0		0.0	0.00	0.0
	10/22/2015 13:51	10/22/2015	13:51	31	32	84	0	0.0		0.0	0.00	0.0
	10/22/2015 14:40	10/22/2015	14:40	30	30	84	3	5.9		144.0	16.47	16.5
	10/22/2015 15:23	10/22/2015	15:23	28	29	82	5	9.6		332.6	38.04	54.5
	10/22/2015 15:24	10/22/2015	15:24	30	30	82	6	11.8		10.7	1.22	55.7
	10/22/2015 16:02	10/22/2015	16:02	30	30	79	7.5	14.8		504.3	57.69	113.4
	10/22/2015 16:03	10/22/2015	16:03	31	31	79	8	15.9		15.3	1.76	115.2
	10/22/2015 16:32	10/22/2015	16:32	31	30	79	8	15.9		461.9	52.84	168.0
10/22/2015 16:33	10/22/2015	16:33	32	31	79	10	20.1		18.0	2.06	170.1	
10/22/2015 17:22	10/22/2015	17:22	32	30	84	10	20.0		983.9	112.56	282.6	
10/22/2015 17:23	10/22/2015	17:23		24					20.0	2.29	284.9	
SW-202 Event 2	11/5/2015 11:52	11/5/2015	11:52	30	32	84	0	0.0				284.9
	11/5/2015 11:53	11/5/2015	11:53	29	29.5	84	0	0.0		0.0	0.00	284.9
	11/5/2015 12:00	11/5/2015	12:00	28	28.5	86	3	5.7		20.1	2.30	287.2
	11/5/2015 12:01	11/5/2015	12:01	31	31	86	6	11.9		8.8	1.01	288.2
	11/5/2015 12:33	11/5/2015	12:33	31	29.5	88	10	19.7		505.7	57.85	346.1
	11/5/2015 12:34	11/5/2015	12:34	33	31	88	12	24.2		22.0	2.51	348.6
	11/5/2015 13:08	11/5/2015	13:08	33	30.5	84	13	26.3		859.0	98.27	446.9
	11/5/2015 14:05	11/5/2015	14:05	33	30	84	14	28.3		1558.1	178.25	625.1
	11/5/2015 14:06	11/5/2015	14:06	34	30.5	84	15	30.7		29.5	3.38	628.5
	11/5/2015 15:08	11/5/2015	15:08	34	29.5	80	17.5	35.9		2065.8	236.33	864.8
	11/5/2015 15:09	11/5/2015	15:09	36	30	80	18	37.7		36.8	4.21	869.0
	11/5/2015 16:10	11/5/2015	16:10	36	28.5	79	21	44.1		2495.1	285.43	1154.5
	11/5/2015 16:11	11/5/2015	16:11		20					44.1	5.04	1159.5
SW-202 Event 3	11/9/2015 12:16	11/9/2015	12:16	29	30	74	0	0.0				1159.5
	11/9/2015 12:25	11/9/2015	12:25	28	27	74	10	19.3		87.0	9.95	1169.5
	11/9/2015 12:28	11/9/2015	12:28	32	31	74	14	28.3		71.5	8.18	1177.6
	11/9/2015 14:14	11/9/2015	14:14	32	27	80	18	36.2		3419.1	391.14	1568.8
	11/9/2015 14:15	11/9/2015	14:15	34	28	80	19.5	40.1		38.1	4.36	1573.2
	11/9/2015 15:34	11/9/2015	15:34	34	26	80	22	45.2		3367.2	385.20	1958.4
	11/9/2015 15:36	11/9/2015	15:36	38	28	80	26	55.6		100.8	11.53	1969.9
	11/9/2015 16:55	11/9/2015	16:55	38	27	76	26	55.8		4400.1	503.37	2473.3
11/9/2015 17:00	11/9/2015	17:00		20					279.0	31.92	2505.2	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-202 Event 4	11/12/2015 8:02	11/12/2015	8:02	27	26	70	4	7.7				2505.2
	11/12/2015 9:52	11/12/2015	9:52	25	23	82	10	18.5	1438.5	164.56	2669.7	
	11/12/2015 9:53	11/12/2015	9:53	32	30	82	18	36.1	27.3	3.12	2672.9	
	11/12/2015 10:46	11/12/2015	10:46	32	29	84	18	36.1	1912.9	218.83	2891.7	
	11/12/2015 12:28	11/12/2015	12:28	32	26	88	21	41.9	3976.3	454.88	3346.6	
	11/12/2015 12:29	11/12/2015	12:29		19				41.9	4.79	3351.4	
SW-202 Event 5	11/19/2015 7:41	11/19/2015	7:41	28	28	75	0	0.0				3351.4
	11/19/2015 8:07	11/19/2015	8:07	27	25.5	75	11	21.0	272.8	31.21	3382.6	
	11/19/2015 8:08	11/19/2015	8:08	32	29	75	15	30.3	25.6	2.93	3385.5	
	11/19/2015 9:44	11/19/2015	9:44	32	27	76	18	36.3	3198.9	365.95	3751.5	
	11/19/2015 9:45	11/19/2015	9:45	35	28	76	21	43.8	40.0	4.58	3756.1	
	11/19/2015 10:44	11/19/2015	10:44	35	27	76	22	45.8	2642.8	302.34	4058.4	
	11/19/2015 11:57	11/19/2015	11:57	35	26.5	78	24	49.9	3494.5	399.77	4458.2	
	11/19/2015 11:58	11/19/2015	11:58		19				49.9	5.71	4463.9	
SW-202 Event 6	11/20/2015 7:46	11/20/2015	7:46	26	27	65	0	0.0				4463.9
	11/20/2015 8:11	11/20/2015	8:11	25	25	68	8	15.0	187.4	21.43	4485.3	
	11/20/2015 8:12	11/20/2015	8:12	31	29.5	68	14	28.2	21.6	2.47	4487.8	
	11/20/2015 10:00	11/20/2015	10:00	28	25.5	79	18	34.6	3390.8	387.91	4875.7	
	11/20/2015 10:03	11/20/2015	10:03	33	30	79	24	48.8	125.2	14.32	4890.0	
	11/20/2015 11:34	11/20/2015	11:34	30.5	26.5	82	24.5	48.4	4422.3	505.91	5395.9	
	11/20/2015 12:26	11/20/2015	12:26	30.5	25	82	25	49.4	2540.6	290.65	5686.6	
	11/20/2015 12:27	11/20/2015	12:27		19				49.4	5.65	5692.2	
SW-202 Event 7	11/24/2015 7:28	11/24/2015	7:28	26	26	50	0	0.0				5692.2
	11/24/2015 7:44	11/24/2015	7:44	25	24	52	7	13.3	106.6	12.19	5704.4	
	11/24/2015 7:45	11/24/2015	7:45	31	28	52	12	24.5	18.9	2.17	5706.6	
	11/24/2015 8:34	11/24/2015	8:34	30	26	60	15.5	31.1	1362.7	155.89	5862.5	
	11/24/2015 8:35	11/24/2015	8:35	32	28	60	16	32.8	31.9	3.65	5866.1	
	11/24/2015 10:13	11/24/2015	10:13	32	25.5	70	20	40.6	3597.5	411.55	6277.7	
	11/24/2015 10:14	11/24/2015	10:14	34	28	70	22	45.6	43.1	4.93	6282.6	
	11/24/2015 11:13	11/24/2015	11:13	34	25	72	22	45.5	2689.6	307.69	6590.3	
	11/24/2015 11:14	11/24/2015	11:14		19				45.5	5.21	6595.5	
	12/3/2015 12:42	12/3/2015	12:42	28.5	28.5	73	0	0.0				6595.5
SW-202 Event 8	12/3/2015 12:56	12/3/2015	12:56	26	27.5	73	6	11.3	79.3	9.07	6604.6	
	12/3/2015 12:57	12/3/2015	12:57	31	31	73	10	20.0	15.7	1.79	6606.4	
	12/3/2015 14:05	12/3/2015	14:05	29	29	74	15	29.3	1678.1	191.98	6798.3	
	12/3/2015 14:07	12/3/2015	14:07	31	30	74	18	36.0	65.3	7.48	6805.8	
	12/3/2015 15:18	12/3/2015	15:18	30	28	70	21	41.7	2758.7	315.60	7121.4	
	12/3/2015 17:22	12/3/2015	17:22	29	26	62	24	47.5	5529.8	632.61	7754.0	
	12/3/2015 17:23	12/3/2015	17:23		19				47.5	5.43	7759.5	
	12/10/2015 7:38	12/10/2015	7:38	45	45	52	20	46.9				7759.5
SW-202 Event 9	12/10/2015 7:39	12/10/2015	7:39	32	32	52	14	28.9	37.9	4.34	7763.8	
	12/10/2015 8:00	12/10/2015	8:00	30	30	52	17	34.4	664.7	76.05	7839.8	
	12/10/2015 9:31	12/10/2015	9:31	30	30	72	20	39.6	3367.3	385.22	8225.1	
	12/10/2015 10:45	12/10/2015	10:45	30	30	76	20	39.5	2927.6	334.92	8560.0	
	12/10/2015 11:47	12/10/2015	11:47	29	29	78	22	42.9	2552.6	292.02	8852.0	
	12/10/2015 12:29	12/10/2015	12:29		19				1800.0	205.92	9057.9	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-202 Event 10	12/14/2015 12:44	12/14/2015	12:44	30	30	81	0	0.0			9057.9
	12/14/2015 12:51	12/14/2015	12:51	28	28	82	6.5	12.5	43.6	4.99	9062.9
	12/14/2015 12:52	12/14/2015	12:52	32	32	82	11	22.1	17.3	1.98	9064.9
	12/14/2015 13:57	12/14/2015	13:57	30	29	81	16	31.4	1739.2	198.97	9263.9
	12/14/2015 13:58	12/14/2015	13:58	32	30	81	18	36.2	33.8	3.87	9267.7
	12/14/2015 14:55	12/14/2015	14:55	36	28	81	24	50.3	2463.2	281.79	9549.5
	12/14/2015 15:50	12/14/2015	15:50	36	27	80	26	54.5	2881.3	329.62	9879.1
	12/14/2015 17:02	12/14/2015	17:02	38	27	78	29.5	63.2	4237.3	484.75	10363.9
	12/14/2015 17:03	12/14/2015	17:03		20				63.2	7.23	10371.1
SW-202 Event 11	12/17/2015 11:40	12/17/2015	11:40	27	27	82	0	0.0			10371.1
	12/17/2015 12:00	12/17/2015	12:00	26	24.5	83	7	13.1	130.9	14.98	10386.1
	12/17/2015 12:01	12/17/2015	12:01	31	29	83	12	23.8	18.4	2.11	10388.2
	12/17/2015 12:40	12/17/2015	12:40	31	28	85	15	29.7	1043.1	119.33	10507.5
	12/17/2015 13:35	12/17/2015	13:35	30	25	85	18	35.2	1785.4	204.25	10711.8
	12/17/2015 13:36	12/17/2015	13:36	32	26	85	20	40.0	37.6	4.30	10716.1
	12/17/2015 14:24	12/17/2015	14:24	32	25	82	20	40.1	1924.0	220.10	10936.2
	12/17/2015 16:07	12/17/2015	16:07	32	24	74	22	44.5	4358.7	498.64	11434.8
	12/17/2015 16:08	12/17/2015	16:08		18				44.5	5.09	11439.9
SW-202 Event 12	1/7/2016 12:34	1/7/2016	12:34	28	28	67	0	0.0			11439.9
	1/7/2016 12:48	1/7/2016	12:48	26	27	67	6	11.4	79.8	9.13	11449.0
	1/7/2016 12:49	1/7/2016	12:49	31	31	67	9	18.1	14.8	1.69	11450.7
	1/7/2016 14:19	1/7/2016	14:19	30	29	69	15	29.8	2157.5	246.81	11697.6
	1/7/2016 15:26	1/7/2016	15:26	28.5	26	70	18.5	36.1	2208.4	252.65	11950.2
	1/7/2016 16:56	1/7/2016	16:56	31	24	65	21.5	43.4	3577.3	409.25	12359.4
	1/7/2016 16:57	1/7/2016	16:57		19				43.4	4.96	12364.4
Total CO ₂ Mass (lbs):											12364.4

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-203 Event 1	10/26/2015 8:07	10/26/2015	8:07	22	23	72	0	0.0				0
	10/26/2015 8:15	10/26/2015	8:15	22	23	72	0	0.0	0.0	0.00	0.0	0.0
	10/26/2015 8:16	10/26/2015	8:16	24	24	72	0	0.0	0.0	0.00	0.0	0.0
	10/26/2015 8:21	10/26/2015	8:21	26	27	72	0	0.0	0.0	0.00	0.00	0.0
	10/26/2015 8:29	10/26/2015	8:29	28	29	73	0	0.0	0.0	0.00	0.00	0.0
	10/26/2015 8:35	10/26/2015	8:35	30	30	73	0	0.0	0.0	0.00	0.00	0.0
	10/26/2015 8:40	10/26/2015	8:40	31	31	73	0	0.0	0.0	0.00	0.00	0.0
	10/26/2015 10:04	10/26/2015	10:04	30	30	74	5	9.9	415.4	47.52	47.5	47.5
	10/26/2015 10:05	10/26/2015	10:05	31	31	74	6	12.0	10.9	1.25	48.8	48.8
	10/26/2015 11:19	10/26/2015	11:19	31	30	81	7	13.9	958.7	109.68	158.5	158.5
	10/26/2015 11:20	10/26/2015	11:20	32	31	81	9	18.1	16.0	1.83	160.3	160.3
	10/26/2015 12:55	10/26/2015	12:55	32	31	84	9	18.0	1715.2	196.22	356.5	356.5
	10/26/2015 13:59	10/26/2015	13:59	32	30	82	10	20.1	1219.2	139.47	496.0	496.0
	10/26/2015 14:59	10/26/2015	14:59	32	30	82	10	20.1	1204.2	137.76	633.7	633.7
	10/26/2015 16:07	10/26/2015	16:07	32	30	80	10.5	21.1	1400.3	160.19	793.9	793.9
10/26/2015 16:51	10/26/2015	16:51	32	30	78	10.5	21.2	929.9	106.38	900.3	900.3	
10/26/2015 16:52	10/26/2015	16:52		19				21.2	2.42	902.7	902.7	
SW-203 Event 2	10/30/2015 7:28	10/30/2015	7:28	28	27	68	0	0.0				902.7
	10/30/2015 7:32	10/30/2015	7:32	32	31	68	0	0.0	0.0	0.00	902.7	902.7
	10/30/2015 7:48	10/30/2015	7:48	30	29.5	68	4	8.0	63.7	7.28	910.0	910.0
	10/30/2015 7:49	10/30/2015	7:49	31	31	68	5	10.1	9.0	1.03	911.0	911.0
	10/30/2015 9:05	10/30/2015	9:05	31	30	74	8	16.0	990.4	113.31	1024.3	1024.3
	10/30/2015 10:05	10/30/2015	10:05	31	29.5	80	8	15.9	957.4	109.53	1133.9	1133.9
	10/30/2015 10:07	10/30/2015	10:07	33	31.5	80	10	20.3	36.2	4.15	1138.0	1138.0
	10/30/2015 10:57	10/30/2015	10:57	33	31	86	10	20.2	1013.4	115.93	1254.0	1254.0
	10/30/2015 10:58	10/30/2015	10:58		20				20.2	2.31	1256.3	1256.3
SW-203 Event 3	11/2/2015 13:56	11/2/2015	13:56	28	29	93	0	0.0				1256.3
	11/2/2015 14:13	11/2/2015	14:13	27	27	92	<2	0.0	0.0	0.00	1256.3	1256.3
	11/2/2015 14:14	11/2/2015	14:14	31	31	92	6	11.8	5.9	0.67	1256.9	1256.9
	11/2/2015 15:00	11/2/2015	15:00	30	29	92	9	17.5	673.9	77.09	1334.0	1334.0
	11/2/2015 15:01	11/2/2015	15:01	32	31	92	11	21.9	19.7	2.25	1336.3	1336.3
	11/2/2015 16:10	11/2/2015	16:10	32	30	86	12	24.0	1582.3	181.01	1517.3	1517.3
	11/2/2015 16:11	11/2/2015	16:11	34	31	86	14	28.6	26.3	3.01	1520.3	1520.3
	11/2/2015 16:53	11/2/2015	16:53	34	30.5	84	14.5	29.7	1223.5	139.97	1660.3	1660.3
	11/2/2015 16:54	11/2/2015	16:54		19				29.7	3.39	1663.7	1663.7
SW-203 Event 4	11/4/2015 7:29	11/4/2015	7:29	28	28	78	0	0.0				1663.7
	11/4/2015 7:30	11/4/2015	7:30	31	31	78	0	0.0	0.0	0.00	1663.7	1663.7
	11/4/2015 7:47	11/4/2015	7:47	30	29	77	6	11.8	100.6	11.51	1675.2	1675.2
	11/4/2015 7:48	11/4/2015	7:48	32	31	77	8.5	17.1	14.5	1.66	1676.8	1676.8
	11/4/2015 8:03	11/4/2015	8:03	32	30.5	77	9.5	19.2	272.2	31.15	1708.0	1708.0
	11/4/2015 8:04	11/4/2015	8:04	33	31	77	11	22.4	20.8	2.38	1710.4	1710.4
	11/4/2015 8:28	11/4/2015	8:28	32.5	30.5	78	12	24.3	560.8	64.15	1774.5	1774.5
	11/4/2015 8:29	11/4/2015	8:29	34	31.5	78	13	26.8	25.5	2.92	1777.4	1777.4
	11/4/2015 9:27	11/4/2015	9:27	34	31	80	14	28.8	1609.8	184.17	1961.6	1961.6
	11/4/2015 10:27	11/4/2015	10:27	34	30	80	16	32.9	1848.7	211.49	2173.1	2173.1
	11/4/2015 10:28	11/4/2015	10:28	35	31	80	17.5	36.3	34.6	3.96	2177.1	2177.1
	11/4/2015 11:27	11/4/2015	11:27	34	30	82	18.5	37.9	2190.3	250.57	2427.6	2427.6
	11/4/2015 11:30	11/4/2015	11:30		20				113.8	13.02	2440.6	2440.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-203 Event 5	11/11/2015 8:03	11/11/2015	8:03	29	29	63	0	0.0				2440.6
	11/11/2015 8:25	11/11/2015	8:25	28	27	64	5	9.8	107.3	12.28		2452.9
	11/11/2015 8:26	11/11/2015	8:26	31	30	64	9	18.2	14.0	1.60		2454.5
	11/11/2015 10:50	11/11/2015	10:50	30	28	79	14	27.6	3293.4	376.76		2831.3
	11/11/2015 10:51	11/11/2015	10:51	33	30	79	17.5	35.6	31.6	3.61		2834.9
	11/11/2015 11:37	11/11/2015	11:37	32	29	81	18	36.2	1650.6	188.83		3023.7
	11/11/2015 12:59	11/11/2015	12:59	32	28	86	19	38.0	3040.1	347.79		3371.5
	11/11/2015 13:00	11/11/2015	13:00		19				38.0	4.35		3375.9
SW-203 Event 6	11/18/2015 8:00	11/18/2015	8:00	28	29	76	0	0.0				3375.9
	11/18/2015 8:41	11/18/2015	8:41	28	25.5	80	7	13.5	275.8	31.55		3407.4
	11/18/2015 8:42	11/18/2015	8:42	31	29.5	80	13	25.9	19.7	2.25		3409.7
	11/18/2015 11:11	11/18/2015	11:11	31	27.5	81	18	35.8	4590.8	525.19		3934.8
	11/18/2015 12:13	11/18/2015	12:13	31	26.5	84	18	35.7	2214.3	253.32		4188.2
	11/18/2015 13:25	11/18/2015	13:25	31	25.5	80	19	37.8	2644.3	302.51		4490.7
		11/18/2015 13:26	11/18/2015	13:26		19				37.8	4.32	
SW-203 Event 7	11/23/2015 7:49	11/23/2015	7:49	26.5	26	52	0	0.0				4495.0
	11/23/2015 8:24	11/23/2015	8:24	25	24.5	52	4.5	8.6	149.9	17.15		4512.1
	11/23/2015 8:26	11/23/2015	8:26	31	29.5	52	12	24.5	33.1	3.79		4515.9
	11/23/2015 10:00	11/23/2015	10:00	28.5	28	64	14.5	28.5	2491.1	284.98		4800.9
	11/23/2015 10:01	11/23/2015	10:01	32	31	64	20	40.8	34.7	3.96		4804.9
	11/23/2015 12:19	11/23/2015	12:19	31	28.5	72	22	44.1	5861.1	670.51		5475.4
	11/23/2015 12:59	11/23/2015	12:59	31	28	74	23	46.0	1802.1	206.16		5681.6
		11/23/2015 13:03	11/23/2015	13:03		21				184.0	21.05	
SW-203 Event 8	11/30/2015 12:14	11/30/2015	12:14	30	30	89	3	5.9				5702.6
	11/30/2015 12:36	11/30/2015	12:36	28	27.5	90	7	13.3	210.9	24.13		5726.7
	11/30/2015 12:38	11/30/2015	12:38	31	30.5	90	11	21.7	35.0	4.00		5730.7
	11/30/2015 14:19	11/30/2015	14:19	30	28.5	90	14	27.3	2471.8	282.77		6013.5
	11/30/2015 16:18	11/30/2015	16:18	30	27	81	18	35.4	3727.2	426.39		6439.9
	11/30/2015 16:54	11/30/2015	16:54	30	26	77	18	35.5	1275.7	145.94		6585.8
		11/30/2015 16:57	11/30/2015	16:57		21				106.5	12.18	
SW-203 Event 9	12/2/2015 7:56	12/2/2015	7:56	31	31	68	0	0.0				6598.0
	12/2/2015 8:30	12/2/2015	8:30	27.5	27.5	70	8	15.4	262.3	30.01		6628.0
	12/2/2015 8:31	12/2/2015	8:31	31	31	70	13.5	27.1	21.3	2.43		6630.5
	12/2/2015 11:51	12/2/2015	11:51	30	28	86	18	35.2	6231.1	712.84		7343.3
	12/2/2015 13:05	12/2/2015	13:05	30	27.5	86	19	37.2	2677.2	306.27		7649.6
		12/2/2015 13:07	12/2/2015	13:07		22				74.3	8.50	
SW-203 Event 10	12/4/2015 7:41	12/4/2015	7:41	28.5	30	58	0	0.0				7658.1
	12/4/2015 8:35	12/4/2015	8:35	26	26	58	9	17.2	465.6	53.27		7711.3
	12/4/2015 8:36	12/4/2015	8:36	30.5	31	58	16	32.3	24.8	2.84		7714.2
	12/4/2015 9:47	12/4/2015	9:47	29	28.5	66	18	35.5	2407.2	275.39		7989.6
	12/4/2015 11:01	12/4/2015	11:01	28	27	70	19.5	37.8	2712.5	310.31		8299.9
	12/4/2015 12:04	12/4/2015	12:04	27.5	27.5	70	21	40.5	2467.6	282.30		8582.2
		12/4/2015 12:05	12/4/2015	12:05		20.5				40.5	4.63	
SW-203 Event 11	12/7/2015 7:49	12/7/2015	7:49	35	34	60	2	4.2				8586.8
	12/7/2015 8:36	12/7/2015	8:36	32	31	60	15	30.8	822.3	94.07		8680.9
	12/7/2015 9:43	12/7/2015	9:43	30	29	70	18	35.7	2227.9	254.87		8935.7
	12/7/2015 10:48	12/7/2015	10:48	29	28	70	20	39.3	2437.8	278.88		9214.6
	12/7/2015 12:05	12/7/2015	12:05	28	28	72	21	40.7	3077.3	352.04		9566.7
		12/7/2015 12:06	12/7/2015	12:06		20				40.7	4.65	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-203 Event 12	12/9/2015 7:33	12/9/2015	7:33	35	34	52	2	4.3			9571.3
	12/9/2015 7:58	12/9/2015	7:58	32	31	52	14	28.9	415.1	47.49	9618.8
	12/9/2015 9:36	12/9/2015	9:36	30	30	72	16	31.7	3107.7	355.52	9974.3
	12/9/2015 11:11	12/9/2015	11:11	29	29	78	18	35.1	3171.9	362.86	10337.2
	12/9/2015 11:12	12/9/2015	11:12	32	32	78	22	44.3	39.7	4.54	10341.7
	12/9/2015 12:26	12/9/2015	12:26	32	32	78	22	44.3	3280.0	375.23	10717.0
	12/9/2015 12:27	12/9/2015	12:27		20				44.3	5.07	10722.0
SW-203 Event 13	12/11/2015 7:40	12/11/2015	7:40	35	35	52	8	17.1			10722.0
	12/11/2015 8:05	12/11/2015	8:05	32	32	52	14	28.9	575.1	65.79	10787.8
	12/11/2015 9:00	12/11/2015	9:00	30	30	70	16	31.8	1669.6	191.00	10978.8
	12/11/2015 10:50	12/11/2015	10:50	29	29	78	20	39.0	3890.4	445.06	11423.9
	12/11/2015 10:51	12/11/2015	10:51		20				39.0	4.46	11428.3
SW-203 Event 14	12/14/2015 7:42	12/14/2015	7:42	27	27	72	0	0.0			11428.3
	12/14/2015 8:31	12/14/2015	8:31	24	25	74	5.5	10.1	247.8	28.35	11456.7
	12/14/2015 8:32	12/14/2015	8:32	31	30	74	13	26.0	18.1	2.07	11458.8
	12/14/2015 10:32	12/14/2015	10:32	29	27.5	77	16	31.2	3432.3	392.65	11851.4
	12/14/2015 10:33	12/14/2015	10:33	33.5	31	77	22	45.1	38.1	4.36	11855.8
	12/14/2015 12:21	12/14/2015	12:21	30.5	28.5	81	22	43.5	4782.0	547.06	12402.8
	12/14/2015 12:40	12/14/2015	12:40	30.5	28.5	81	22	43.5	826.0	94.49	12497.3
	12/14/2015 12:42	12/14/2015	12:42		21				86.9	9.95	12507.3
SW-203 Event 15	12/16/2015 7:38	12/16/2015	7:38	26.5	26.5	66	0	0.0			12507.3
	12/16/2015 8:15	12/16/2015	8:15	24.5	24.5	66	4.5	8.4	155.3	17.76	12525.0
	12/16/2015 8:16	12/16/2015	8:16	31	29.5	66	12	24.2	16.3	1.86	12526.9
	12/16/2015 9:58	12/16/2015	9:58	28.5	28	74	14	27.2	2622.0	299.96	12826.9
	12/16/2015 10:00	12/16/2015	10:00	32	30.5	74	19	38.4	65.6	7.51	12834.4
	12/16/2015 11:32	12/16/2015	11:32	30	28.5	77	19	37.5	3491.6	399.43	13233.8
	12/16/2015 12:47	12/16/2015	12:47	29	27.5	81	20	38.8	2862.2	327.43	13561.2
	12/16/2015 12:48	12/16/2015	12:48		21				38.8	4.44	13565.7
SW-203 Event 16	12/19/2015 11:11	12/19/2015	11:11	30	31.5	68	0	0.0			13565.7
	12/19/2015 11:41	12/19/2015	11:41	27.5	27.5	69	9	17.4	260.6	29.82	13595.5
	12/19/2015 11:42	12/19/2015	11:42	32	32.5	69	14	28.5	22.9	2.62	13598.1
	12/19/2015 12:49	12/19/2015	12:49	34	30	70	18	37.3	2203.9	252.12	13850.2
	12/19/2015 13:36	12/19/2015	13:36	34	28.5	69	20.5	42.6	1877.5	214.79	14065.0
	12/19/2015 14:44	12/19/2015	14:44	34	27	70	22	45.6	2998.5	343.03	14408.1
	12/19/2015 15:42	12/19/2015	15:42	33	27	68	22	45.2	2635.3	301.47	14709.5
	12/19/2015 17:06	12/19/2015	17:06	35	27	63	24	50.6	4027.2	460.71	15170.2
	12/19/2015 17:07	12/19/2015	17:07		20.5				50.6	5.79	15176.0
SW-203 Event 17	12/21/2015 7:47	12/21/2015	7:47	29	30	62	0	0.0			15176.0
	12/21/2015 8:15	12/21/2015	8:15	27	27	66	7	13.5	188.6	21.58	15197.6
	12/21/2015 8:16	12/21/2015	8:16	31	31	66	12	24.2	18.8	2.15	15199.8
	12/21/2015 9:36	12/21/2015	9:36	31	29.5	72	17	34.1	2330.7	266.63	15466.4
	12/21/2015 11:52	12/21/2015	11:52	29	27	84	21	40.7	5082.9	581.49	16047.9
	12/21/2015 12:57	12/21/2015	12:57	32	26	87	21.5	42.9	2717.7	310.91	16358.8
	12/21/2015 14:04	12/21/2015	14:04	32	25.5	80	22	44.2	2920.7	334.13	16692.9
	12/21/2015 15:05	12/21/2015	15:05	32	25.5	79	22	44.3	2699.9	308.86	17001.8
	12/21/2015 15:37	12/21/2015	15:37	32	25	77	22	44.4	1418.4	162.26	17164.0
	12/21/2015 17:05	12/21/2015	17:05	33	25.5	74	24	49.1	4111.0	470.30	17634.3
	12/21/2015 17:06	12/21/2015	17:06		20.5				49.1	5.61	17640.0

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-203 Event 18	12/22/2015 7:25	12/22/2015	7:25	30	30	72	0	0.0				17640.0
	12/22/2015 7:52	12/22/2015	7:52	26	21	72	7	13.2		178.6	20.43	17660.4
	12/22/2015 7:53	12/22/2015	7:53	32	31.5	72	14	28.4		20.8	2.38	17662.8
	12/22/2015 10:15	12/22/2015	10:15	33.5	27.5	76	21	43.1		5072.7	580.32	18243.1
	12/22/2015 11:02	12/22/2015	11:02	33	27	78	22	44.8		2065.2	236.25	18479.3
	12/22/2015 11:04	12/22/2015	11:04		22					89.6	10.25	18489.6
SW-203 Event 19	1/5/2016 7:45	1/5/2016	7:45	26	28.5	46	0	0.0				18489.6
	1/5/2016 8:10	1/5/2016	8:10	25	25.5	47	6	11.5		143.5	16.42	18506.0
	1/5/2016 8:11	1/5/2016	8:11	31	31.5	47	12	24.7		18.1	2.07	18508.1
	1/5/2016 9:45	1/5/2016	9:45	30	29.5	56	18	36.2		2862.5	327.47	18835.5
	1/5/2016 11:38	1/5/2016	11:38	29	27	62	21	41.6		4395.4	502.84	19338.4
	1/5/2016 13:02	1/5/2016	13:02	29	26	62	22	43.5		3573.4	408.80	19747.2
	1/5/2016 14:08	1/5/2016	14:08	28.5	26	58	22	43.4		2870.3	328.37	20075.5
	1/5/2016 14:09	1/5/2016	14:09		19					43.4	4.97	20080.5
SW-203 Event 20	1/8/2016 7:35	1/8/2016	7:35	28	28	61	0	0.0				20080.5
	1/8/2016 8:34	1/8/2016	8:34	26	25.5	61	9	17.2		507.2	58.03	20138.5
	1/8/2016 8:35	1/8/2016	8:35	33	31.5	61	18	37.3		27.2	3.12	20141.7
	1/8/2016 9:42	1/8/2016	9:42	32	30	63	21	42.9		2686.9	307.38	20449.0
	1/8/2016 11:40	1/8/2016	11:40	31	27.5	68	24	48.3		5382.3	615.74	21064.8
	1/8/2016 13:05	1/8/2016	13:05	30.5	27	70	24.5	48.9		4131.8	472.68	21537.5
	1/8/2016 13:06	1/8/2016	13:06		19					48.9	5.60	21543.1
	SW-203 Event 21	1/12/2016 7:40	1/12/2016	7:40	26.5	26	41	0	0.0			
1/12/2016 8:03		1/12/2016	8:03	24.5	24	42	4	7.6		87.9	10.05	21553.1
1/12/2016 8:04		1/12/2016	8:04	31	30	42	12	24.8		16.2	1.85	21555.0
1/12/2016 9:47		1/12/2016	9:47	28.5	28	64	14	27.5		2692.1	307.97	21862.9
1/12/2016 9:48		1/12/2016	9:48	32	31	64	18	36.8		32.1	3.68	21866.6
1/12/2016 11:11		1/12/2016	11:11	32	29.5	70	21.5	43.7		3337.3	381.79	22248.4
1/12/2016 12:24		1/12/2016	12:24	31.5	28.5	72	22	44.3		3211.7	367.42	22615.8
1/12/2016 12:51		1/12/2016	12:51	31.5	28.5	73	22	44.3		1196.6	136.89	22752.7
1/12/2016 12:52		1/12/2016	12:52		22					44.3	5.07	22757.8
SW-203 Event 22	1/14/2016 7:32	1/14/2016	7:32	27.5	27.5	45	0	0.0				22757.8
	1/14/2016 7:56	1/14/2016	7:56	26	25	45	6	11.6		139.8	15.99	22773.8
	1/14/2016 7:57	1/14/2016	7:57	31	29.5	45	13	26.8		19.2	2.20	22776.0
	1/14/2016 9:32	1/14/2016	9:32	28.5	27.5	58	16	31.6		2772.5	317.18	23093.1
	1/14/2016 11:35	1/14/2016	11:35	28	26	74	19	36.7		4201.8	480.68	23573.8
	1/14/2016 12:57	1/14/2016	12:57	28	26	71	20	38.8		3095.1	354.08	23927.9
	1/14/2016 12:58	1/14/2016	12:58		19					38.8	4.43	23932.3
SW-203 Event 23	1/19/2016 7:28	1/19/2016	7:28	29	30	36	0	0.0				23932.3
	1/19/2016 7:55	1/19/2016	7:55	26	27	38	8	15.6		211.2	24.16	23956.5
	1/19/2016 7:56	1/19/2016	7:56	32	30.5	38	14	29.4		22.5	2.57	23959.1
	1/19/2016 9:39	1/19/2016	9:39	30	28.5	54	19	38.3		3486.3	398.83	24357.9
	1/19/2016 11:18	1/19/2016	11:18	29.5	28	61	21	41.8		3968.3	453.98	24811.9
	1/19/2016 13:54	1/19/2016	13:54	28.5	26	63	22	43.2		6635.3	759.08	25571.0
	1/19/2016 13:55	1/19/2016	13:55		19					43.2	4.95	25575.9
Total CO ₂ Mass (lbs):											25575.9	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-204 Event 1	10/22/2015 9:25	10/22/2015	9:25	12	13	80	0	0.0				0
	10/22/2015 9:30	10/22/2015	9:30	15	17	80	0	0.0	0.0	0.00	0.0	0.0
	10/22/2015 9:34	10/22/2015	9:34	18	18	80	0	0.0	0.0	0.00	0.0	0.0
	10/22/2015 9:38	10/22/2015	9:38	20	21	80	0	0.0	0.0	0.00	0.0	0.0
	10/22/2015 9:40	10/22/2015	9:40	22	24.5	81	0	0.0	0.0	0.00	0.00	0.0
	10/22/2015 9:42	10/22/2015	9:42	24	26	82	0	0.0	0.0	0.0	0.00	0.0
	10/22/2015 9:45	10/22/2015	9:45	26	27.5	82	0	0.0	0.0	0.0	0.00	0.0
	10/22/2015 9:48	10/22/2015	9:48	28	29	82	0	0.0	0.0	0.0	0.00	0.0
	10/22/2015 9:51	10/22/2015	9:51	30	31	82	0	0.0	0.0	0.0	0.00	0.0
	10/22/2015 10:42	10/22/2015	10:42	30	30	86	4	7.8	199.5	22.82	22.8	22.8
	10/22/2015 11:18	10/22/2015	11:18	28	28	90	6	11.4	346.4	39.63	62.4	62.4
	10/22/2015 11:19	10/22/2015	11:19	31	31	90	9	17.7	14.6	1.67	64.1	64.1
	10/22/2015 11:55	10/22/2015	11:55	30	30.5	90	10	19.5	669.8	76.63	140.7	140.7
	10/22/2015 13:42	10/22/2015	13:42	30	29	88	14	27.3	2504.2	286.49	427.2	427.2
	10/22/2015 14:31	10/22/2015	14:31	30	28	88	15	29.3	1386.8	158.65	585.9	585.9
10/22/2015 15:10	10/22/2015	15:10	30	27.5	86	16	31.3	1181.1	135.11	721.0	721.0	
10/22/2015 15:11	10/22/2015	15:11		19				31.3	3.58	724.6	724.6	
SW-204 Event 2	10/29/2015 12:01	10/29/2015	12:01	27	27	91	0	0.0				724.6
	10/29/2015 12:10	10/29/2015	12:10	26	26.5	91	0	0.0	0.0	0.00	724.6	724.6
	10/29/2015 12:12	10/29/2015	12:12	30	31	91	0	0.0	0.0	0.00	724.6	724.6
	10/29/2015 13:45	10/29/2015	13:45	29	28	90	4	7.7	358.2	40.98	765.6	765.6
	10/29/2015 13:50	10/29/2015	13:50	32	31	90	7	13.9	54.1	6.19	771.7	771.7
	10/29/2015 15:07	10/29/2015	15:07	32	30	90	10.5	20.9	1342.0	153.53	925.3	925.3
	10/29/2015 15:09	10/29/2015	15:09	33	31	90	12	24.2	45.1	5.16	930.4	930.4
	10/29/2015 16:10	10/29/2015	16:10	33	30	90	15	30.2	1658.0	189.68	1120.1	1120.1
	10/29/2015 16:52	10/29/2015	16:52	32	29	88	16	31.9	1304.7	149.26	1269.4	1269.4
	10/29/2015 16:54	10/29/2015	16:54		20				63.9	7.31	1276.7	1276.7
SW-204 Event 3	11/3/2015 7:45	11/3/2015	7:45	28	28	78	0	0.0				1276.7
	11/3/2015 7:53	11/3/2015	7:53	27	27	78	0	0.0	0.0	0.00	1276.7	1276.7
	11/3/2015 7:54	11/3/2015	7:54	31	31	78	<2	0.0	0.0	0.00	1276.7	1276.7
	11/3/2015 8:22	11/3/2015	8:22	30	29	80	6	11.8	165.2	18.90	1295.6	1295.6
	11/3/2015 8:24	11/3/2015	8:24	31	30.5	80	8	15.9	27.7	3.17	1298.7	1298.7
	11/3/2015 8:54	11/3/2015	8:54	30.5	29.5	80	10	19.8	535.3	61.24	1360.0	1360.0
	11/3/2015 8:56	11/3/2015	8:56	31	30	80	11	21.9	41.7	4.77	1364.8	1364.8
	11/3/2015 9:49	11/3/2015	9:49	31	29	82	13	25.8	1263.6	144.56	1509.3	1509.3
	11/3/2015 9:51	11/3/2015	9:51	33	30.5	82	14.5	29.4	55.2	6.32	1515.6	1515.6
	11/3/2015 10:49	11/3/2015	10:49	32.5	29.5	88	16	32.1	1784.1	204.10	1719.7	1719.7
	11/3/2015 10:51	11/3/2015	10:51	34	30.5	88	17	34.7	66.8	7.64	1727.4	1727.4
	11/3/2015 11:33	11/3/2015	11:33	34	29.5	90	18	36.6	1496.8	171.24	1898.6	1898.6
	11/3/2015 11:34	11/3/2015	11:34		20				36.6	4.19	1902.8	1902.8

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-204 Event 4	11/6/2015 7:19	11/6/2015	7:19	30	30	76	0	0.0				1902.8
	11/6/2015 7:28	11/6/2015	7:28	28	28	76	<2	0.0	0.0	0.00		1902.8
	11/6/2015 7:29	11/6/2015	7:29	31	31	76	6	12.0	6.0	0.69		1903.5
	11/6/2015 8:00	11/6/2015	8:00	31	30	78	10	19.9	494.6	56.58		1960.1
	11/6/2015 8:01	11/6/2015	8:01	32	30.5	78	12	24.2	22.1	2.52		1962.6
	11/6/2015 8:31	11/6/2015	8:31	32	30	78	13	26.2	755.5	86.43		2049.0
	11/6/2015 8:32	11/6/2015	8:32	33	30.5	78	14.5	29.5	27.9	3.19		2052.2
	11/6/2015 9:27	11/6/2015	9:27	33	30	82	16	32.5	1704.7	195.02		2247.2
	11/6/2015 9:28	11/6/2015	9:28	34	30.5	82	16.5	33.8	33.1	3.79		2251.0
	11/6/2015 10:25	11/6/2015	10:25	34	30	86	18	36.8	2011.8	230.15		2481.2
	11/6/2015 10:26	11/6/2015	10:26	35	30.5	86	19.5	40.2	38.5	4.40		2485.6
	11/6/2015 11:18	11/6/2015	11:18	35	29.5	90	20	41.1	2115.2	241.98		2727.5
11/6/2015 11:19	11/6/2015	11:19		22				41.1	4.70		2732.2	
SW-204 Event 5	11/10/2015 8:05	11/10/2015	8:05	27	27	66	0	0.0				2732.2
	11/10/2015 8:17	11/10/2015	8:17	26	26	66	4	7.6	45.6	5.22		2737.5
	11/10/2015 8:18	11/10/2015	8:18	31	30.5	66	8	16.1	11.9	1.36		2738.8
	11/10/2015 9:37	11/10/2015	9:37	30	28	70	14	27.8	1735.3	198.51		2937.3
	11/10/2015 9:38	11/10/2015	9:38	33	29	70	18	36.9	32.4	3.70		2941.0
	11/10/2015 10:42	11/10/2015	10:42	33	28	72	19	38.9	2427.6	277.71		3218.8
	11/10/2015 10:43	11/10/2015	10:43	36	30	72	22	46.5	42.7	4.88		3223.6
	11/10/2015 12:10	11/10/2015	12:10	36	29	75	24	50.6	4221.3	482.92		3706.6
11/10/2015 12:25	11/10/2015	12:25		22				758.4	86.76		3793.3	
SW-204 Event 6	11/12/2015 12:26	11/12/2015	12:26	27	27	88	0	0.0				3793.3
	11/12/2015 12:31	11/12/2015	12:31	31	31	88	6	11.8	29.6	3.39		3796.7
	11/12/2015 13:10	11/12/2015	13:10	29	28.5	88	12	23.2	682.5	78.08		3874.8
	11/12/2015 13:11	11/12/2015	13:11	31	30.5	88	15	29.6	26.4	3.02		3877.8
	11/12/2015 14:15	11/12/2015	14:15	29	27.5	89	20	38.6	2181.3	249.54		4127.3
	11/12/2015 14:18	11/12/2015	14:18	32.5	30	89	25	50.1	133.0	15.22		4142.5
	11/12/2015 15:48	11/12/2015	15:48	32	29.5	89	26	51.8	4587.8	524.84		4667.4
	11/12/2015 17:02	11/12/2015	17:02	37	27	82	28	59.2	4107.4	469.88		5137.3
11/12/2015 17:03	11/12/2015	17:03		21				59.2	6.77		5144.0	
SW-204 Event 7	11/17/2015 7:51	11/17/2015	7:51	29	28	70	0	0.0				5144.0
	11/17/2015 7:53	11/17/2015	7:53	28	28	70	6	11.6	11.6	1.33		5145.4
	11/17/2015 7:55	11/17/2015	7:55	32	31	71	9	18.3	29.9	3.42		5148.8
	11/17/2015 9:53	11/17/2015	9:53	32	27	84	18	36.1	3204.5	366.59		5515.4
	11/17/2015 9:54	11/17/2015	9:54	37	30	84	23	48.5	42.3	4.84		5520.2
	11/17/2015 11:29	11/17/2015	11:29	37	28	89	25	52.5	4797.3	548.81		6069.0
	11/17/2015 13:17	11/17/2015	13:17	36	27	90	26	54.0	5749.6	657.75		6726.8
11/17/2015 13:18	11/17/2015	13:18		19				54.0	6.18		6733.0	
SW-204 Event 8	11/19/2015 12:04	11/19/2015	12:04	30	30	78	0	0.0				6733.0
	11/19/2015 12:21	11/19/2015	12:21	28	28	78	6	11.6	98.2	11.23		6744.2
	11/19/2015 12:22	11/19/2015	12:22	31	30.5	78	10	19.9	15.7	1.80		6746.0
	11/19/2015 13:13	11/19/2015	13:13	31	28	78	14	27.9	1219.6	139.52		6885.5
	11/19/2015 13:14	11/19/2015	13:14	33	29.5	78	17	34.6	31.3	3.58		6889.1
	11/19/2015 15:34	11/19/2015	15:34	33	27	76	20	40.8	5280.0	604.03		7493.1
11/19/2015 15:35	11/19/2015	15:35		21				40.8	4.67		7497.8	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-204 Event 9	11/21/2015 12:28	11/21/2015	12:28	27	27	78	0	0.0			7497.8
	11/21/2015 12:52	11/21/2015	12:52	25	24	78	5.5	10.2	122.5	14.01	7511.8
	11/21/2015 12:53	11/21/2015	12:53	31	29.5	78	11.5	22.9	16.6	1.89	7513.7
	11/21/2015 14:00	11/21/2015	14:00	31	27	80	17	33.8	1900.4	217.40	7731.1
	11/21/2015 14:02	11/21/2015	14:02	37	30.5	80	22	46.6	80.4	9.20	7740.3
	11/21/2015 14:55	11/21/2015	14:55	36	28	76	24	50.5	2572.9	294.35	8034.6
	11/21/2015 16:06	11/21/2015	16:06	34	26	74	26	53.7	3700.1	423.29	8457.9
	11/21/2015 17:08	11/21/2015	17:08	37	26	72	28	59.7	3517.4	402.39	8860.3
	11/21/2015 17:09	11/21/2015	17:09		20				59.7	6.84	8867.2
SW-204 Event 10	12/18/2015 7:45	12/18/2015	7:45	28.5	28.5	69	0	0.0			8867.2
	12/18/2015 8:19	12/18/2015	8:19	25.5	25.5	68	8	15.1	256.4	29.34	8896.5
	12/18/2015 8:20	12/18/2015	8:20	31	30.5	68	14	28.2	21.6	2.47	8899.0
	12/18/2015 9:31	12/18/2015	9:31	32	27	67	19.5	39.7	2409.7	275.67	9174.6
	12/18/2015 10:19	12/18/2015	10:19	31.5	25.5	71	21	42.4	1969.8	225.34	9400.0
	12/18/2015 11:27	12/18/2015	11:27	31	24	74	22	44.0	2936.7	335.96	9735.9
	12/18/2015 12:39	12/18/2015	12:39	30.5	24	74	22	43.8	3159.9	361.49	10097.4
	12/18/2015 13:21	12/18/2015	13:21	30.5	24	73	22	43.8	1839.0	210.38	10307.8
	12/18/2015 14:26	12/18/2015	14:26	33	24	70	25	51.3	3091.3	353.64	10661.5
	12/18/2015 14:27	12/18/2015	14:27		19.5				51.3	5.87	10667.3
SW-204 Event 11	1/6/2016 7:42	1/6/2016	7:42	28	29	47	0	0.0			10667.3
	1/6/2016 8:11	1/6/2016	8:11	25	25.5	48	10	19.1	277.1	31.70	10699.0
	1/6/2016 8:12	1/6/2016	8:12	32	31.5	48	18	37.4	28.2	3.23	10702.3
	1/6/2016 10:14	1/6/2016	10:14	30	27	58	24	48.2	5220.9	597.27	11299.5
	1/6/2016 10:15	1/6/2016	10:15	32	29	58	27	55.5	51.9	5.93	11305.5
	1/6/2016 11:27	1/6/2016	11:27	31	27	64	27.5	55.6	3997.1	457.26	11762.7
	1/6/2016 12:15	1/6/2016	12:15	28.5	25.5	64	26	51.0	2558.3	292.67	12055.4
	1/6/2016 12:16	1/6/2016	12:16		19				51.0	5.84	12061.2
	SW-204 Event 12	1/11/2016 7:13	1/11/2016	7:13	29	29	42	0	0.0		
1/11/2016 7:57		1/11/2016	7:57	28	26.5	43	9.5	18.9	416.6	47.66	12108.9
1/11/2016 7:58		1/11/2016	7:58	32	29.5	43	15	31.3	25.1	2.87	12111.8
1/11/2016 10:32		1/11/2016	10:32	28.5	26	62	22	43.3	5742.0	656.89	12768.7
1/11/2016 10:34		1/11/2016	10:34	30	27	62	24	48.0	91.3	10.45	12779.1
1/11/2016 12:04		1/11/2016	12:04	30	25.5	66	26	51.8	4494.2	514.13	13293.2
1/11/2016 12:05		1/11/2016	12:05		19				51.8	5.93	13299.2
SW-204 Event 13	1/13/2016 7:56	1/13/2016	7:56	28	28	43	0	0.0			13299.2
	1/13/2016 8:24	1/13/2016	8:24	26	25	46	6	11.6	162.9	18.64	13317.8
	1/13/2016 8:25	1/13/2016	8:25	29.5	31	46	12	24.3	18.0	2.05	13319.9
	1/13/2016 10:16	1/13/2016	10:16	27.5	25.5	65	19	36.8	3390.8	387.90	13707.8
	1/13/2016 11:48	1/13/2016	11:48	27	24.5	70	21	40.3	3545.9	405.65	14113.4
	1/13/2016 12:46	1/13/2016	12:46	27	24	70	21.5	41.2	2362.8	270.31	14383.7
	1/13/2016 12:47	1/13/2016	12:47		18				41.2	4.72	14388.4
SW-204 Event 14	1/15/2016 7:21	1/15/2016	7:21	27	27	66	0	0.0			14388.4
	1/15/2016 7:35	1/15/2016	7:35	26	25.5	66	4.5	8.6	59.9	6.85	14395.3
	1/15/2016 7:36	1/15/2016	7:36	31	30	66	9	18.1	13.3	1.53	14396.8
	1/15/2016 8:41	1/15/2016	8:41	30.5	27.5	66	15	30.1	1567.1	179.28	14576.1
	1/15/2016 10:26	1/15/2016	10:26	30.5	25	67	19.5	39.1	3629.4	415.20	14991.3
	1/15/2016 11:33	1/15/2016	11:33	30	24.5	67	20	39.8	2642.8	302.34	15293.6
	1/15/2016 11:34	1/15/2016	11:34		19				39.8	4.56	15298.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-204 Event 15	1/18/2016 8:01	1/18/2016	8:01	26	27	48	0	0.0			15298.2
	1/18/2016 8:40	1/18/2016	8:40	24	24	54	6	11.3	219.4	25.10	15323.3
	1/18/2016 8:41	1/18/2016	8:41	31	29.5	54	12	24.5	17.9	2.04	15325.3
	1/18/2016 10:23	1/18/2016	10:23	27.5	24.5	62	18	35.0	3033.2	347.00	15672.3
	1/18/2016 10:24	1/18/2016	10:24	33.5	30	62	26	54.1	44.5	5.09	15677.4
	1/18/2016 11:44	1/18/2016	11:44	33	28	66	28	57.7	4470.5	511.43	16188.9
	1/18/2016 13:38	1/18/2016	13:38	32	26	67	30	61.1	6770.7	774.57	16963.4
	1/18/2016 13:39	1/18/2016	13:39		19				61.1	6.99	16970.4
SW-204 Event 16	1/20/2016 7:37	1/20/2016	7:37	29	25	38	0	0.0			16970.4
	1/20/2016 8:06	1/20/2016	8:06	26	26.5	42	9	17.5	254.1	29.07	16999.5
	1/20/2016 8:07	1/20/2016	8:07	32	31	42	16	33.4	25.5	2.91	17002.4
	1/20/2016 9:28	1/20/2016	9:28	30	27.5	61	21	42.1	3057.3	349.76	17352.2
	1/20/2016 9:29	1/20/2016	9:29	33	30.5	61	25	51.8	46.9	5.37	17357.5
	1/20/2016 11:18	1/20/2016	11:18	33	28	72	28	57.4	5947.1	680.35	18037.9
	1/20/2016 12:24	1/20/2016	12:24	32	27.5	73	29	58.7	3830.1	438.17	18476.0
	1/20/2016 14:07	1/20/2016	14:07	32	27	72	30	60.8	6154.4	704.07	19180.1
	1/20/2016 14:09	1/20/2016	14:09		20				121.6	13.91	19194.0
SW-204 Event 17	1/25/2016 7:42	1/25/2016	7:42	30	30	42	0	0.0			19194.0
	1/25/2016 8:16	1/25/2016	8:16	26.5	26.5	47	12.5	24.4	414.3	47.39	19241.4
	1/25/2016 8:17	1/25/2016	8:17	31	30	47	19.5	40.1	32.2	3.69	19245.1
	1/25/2016 9:33	1/25/2016	9:33	30.5	28	62	22	44.3	3205.5	366.71	19611.8
	1/25/2016 11:11	1/25/2016	11:11	29	27	74	24.5	47.9	4517.5	516.80	20128.6
	1/25/2016 12:37	1/25/2016	12:37	29	26	78	25.5	49.7	4196.2	480.05	20608.7
	1/25/2016 12:38	1/25/2016	12:38		19				49.7	5.68	20614.3
	SW-204 Event 18	1/26/2016 7:42	1/26/2016	7:42	30	30	55	0	0.0		
1/26/2016 9:21		1/26/2016	9:21	26.5	26	62	15	28.8	1425.9	163.12	20777.5
1/26/2016 9:22		1/26/2016	9:22	33	31	62	23.5	48.6	38.7	4.43	20781.9
1/26/2016 11:48		1/26/2016	11:48	31.5	26.5	77	28.5	57.2	7721.6	883.35	21665.2
1/26/2016 13:49		1/26/2016	13:49	31	26	78	29	57.8	6954.5	795.60	22460.8
1/26/2016 13:50		1/26/2016	13:50		19				57.8	6.61	22467.5
SW-204 Event 19	1/28/2016 7:09	1/28/2016	7:09	28	28	62	0	0.0			22467.5
	1/28/2016 7:38	1/28/2016	7:38	26	25	62	8	15.3	221.4	25.33	22492.8
	1/28/2016 7:39	1/28/2016	7:39	30	28	62	13.5	27.0	21.1	2.42	22495.2
	1/28/2016 9:30	1/28/2016	9:30	27	25.5	61	18	34.8	3431.8	392.60	22887.8
	1/28/2016 9:31	1/28/2016	9:31	35	32	61	25	52.9	43.8	5.01	22892.8
	1/28/2016 11:25	1/28/2016	11:25	33	27.5	64	28.5	58.8	6366.9	728.37	23621.2
	1/28/2016 11:58	1/28/2016	11:58	33	27.5	64	28.5	58.8	1941.7	222.13	23843.3
	1/28/2016 11:59	1/28/2016	11:59		19				58.8	6.73	23850.0
SW-204 Event 20	2/1/2016 7:44	2/1/2016	7:44	27	27	53	0	0.0			23850.0
	2/1/2016 8:05	2/1/2016	8:05	23.5	24	57	7	13.0	136.5	15.62	23865.7
	2/1/2016 8:06	2/1/2016	8:06	30	28	57	13.5	27.2	20.1	2.30	23868.0
	2/1/2016 9:50	2/1/2016	9:50	27	24.5	76	19	36.2	3295.2	376.97	24244.9
	2/1/2016 9:51	2/1/2016	9:51	34	31	76	26	53.6	44.9	5.14	24250.1
	2/1/2016 11:29	2/1/2016	11:29	33.5	28	84	29	59.0	5519.6	631.44	24881.5
	2/1/2016 11:30	2/1/2016	11:30		18				59.0	6.75	24888.3
	Total CO ₂ Mass (lbs):										

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-205 Event 1	10/21/2015 8:29	10/21/2015	8:29	19	21	74	0	0.0				0
	10/21/2015 8:34	10/21/2015	8:34	20	21.5	74	0	0.0	0.0	0.00	0.0	0.0
	10/21/2015 8:35	10/21/2015	8:35	22	25	74	0	0.0	0.0	0.00	0.0	0.0
	10/21/2015 8:39	10/21/2015	8:39	24	25	74	0	0.0	0.0	0.00	0.0	0.0
	10/21/2015 8:40	10/21/2015	8:40	26	29	74	0	0.0	0.0	0.00	0.00	0.0
	10/21/2015 8:44	10/21/2015	8:44	27	28	74	0	0.0	0.0	0.00	0.00	0.0
	10/21/2015 8:46	10/21/2015	8:46	29	31	74	0	0.0	0.0	0.00	0.00	0.0
	10/21/2015 8:57	10/21/2015	8:57	29	31	74	0	0.0	0.0	0.00	0.00	0.0
	10/21/2015 9:11	10/21/2015	9:11	29	31	74	0	0.0	0.0	0.00	0.00	0.0
	10/21/2015 10:27	10/21/2015	10:27	28	30	86	4	7.6	290.4	33.23	33.2	33.2
	10/21/2015 10:28	10/21/2015	10:28	29	31.5	86	5	9.7	8.7	0.99	34.2	34.2
	10/21/2015 12:43	10/21/2015	12:43	29	28	87	11	21.2	2086.6	238.71	272.9	272.9
	10/21/2015 13:44	10/21/2015	13:44	28	28	87	14	26.7	1463.1	167.38	440.3	440.3
	10/21/2015 14:45	10/21/2015	14:45	28	26	83	16	30.7	1750.2	200.22	640.5	640.5
	10/21/2015 16:04	10/21/2015	16:04	28	26	83	18	34.5	2573.4	294.40	934.9	934.9
10/21/2015 17:02	10/21/2015	17:02	28	26	79	18	34.6	2004.3	229.29	1164.2	1164.2	
10/21/2015 17:03	10/21/2015	17:03		19				34.6	3.96	1168.2	1168.2	
SW-205 Event 2	10/30/2015 7:35	10/30/2015	7:35	26	27	66	0	0.0				1168.2
	10/30/2015 7:38	10/30/2015	7:38	32	31.5	66	4	8.2	12.2	1.40	1169.6	1169.6
	10/30/2015 7:50	10/30/2015	7:50	30	30	67	10	19.9	168.4	19.27	1188.8	1188.8
	10/30/2015 7:52	10/30/2015	7:52	32	31	67	12	24.4	44.4	5.07	1193.9	1193.9
	10/30/2015 9:09	10/30/2015	9:09	31	27	76	18	35.9	2324.4	265.92	1459.8	1459.8
	10/30/2015 9:11	10/30/2015	9:11	35	30.5	76	22	45.8	81.8	9.35	1469.2	1469.2
	10/30/2015 10:12	10/30/2015	10:12	35	29	81	22.5	46.7	2820.8	322.70	1791.9	1791.9
	10/30/2015 11:03	10/30/2015	11:03	35	28	87	23	47.4	2398.7	274.41	2066.3	2066.3
	10/30/2015 11:05	10/30/2015	11:05		20				94.8	10.85	2077.2	2077.2
SW-205 Event 3	11/4/2015 11:33	11/4/2015	11:33	35	34	80	9	18.7				2077.2
	11/4/2015 11:40	11/4/2015	11:40	34	34	80	12	24.6	151.6	17.35	2094.5	2094.5
	11/4/2015 12:28	11/4/2015	12:28	32	28	82	22	44.2	1651.3	188.91	2283.4	2283.4
	11/4/2015 12:29	11/4/2015	12:29	35	32	82	25	51.8	48.0	5.49	2288.9	2288.9
	11/4/2015 13:35	11/4/2015	13:35	35	33	82	25	51.8	3417.8	391.00	2679.9	2679.9
	11/4/2015 14:32	11/4/2015	14:32	32	28	82	28	56.2	3077.5	352.06	3032.0	3032.0
	11/4/2015 15:30	11/4/2015	15:30	32	28	82	28	56.2	3259.4	372.88	3404.8	3404.8
	11/4/2015 16:00	11/4/2015	16:00						1685.9	192.87	3597.7	3597.7
SW-205 Event 4	11/6/2015 7:15	11/6/2015	7:15	38	34	78	20	42.8				3597.7
	11/6/2015 7:37	11/6/2015	7:37	36	30	78	25	52.5	1048.9	120.00	3717.7	3717.7
	11/6/2015 8:36	11/6/2015	8:36	35	30	78	28	58.2	3266.7	373.71	4091.4	4091.4
	11/6/2015 9:36	11/6/2015	9:36	35	30	80	28	58.1	3490.0	399.26	4490.7	4490.7
	11/6/2015 10:32	11/6/2015	10:32	35	28	80	30	62.3	3370.4	385.58	4876.2	4876.2
	11/6/2015 11:30	11/6/2015	11:30	35	28	80	30	62.3	3611.2	413.12	5289.4	5289.4
	11/6/2015 11:32	11/6/2015	11:32		18				124.5	14.25	5303.6	5303.6
SW-205 Event 5	11/9/2015 12:06	11/9/2015	12:06	30	30	74	0	0.0				5303.6
	11/9/2015 12:25	11/9/2015	12:25	28	27	74	14	27.1	257.1	29.41	5333.0	5333.0
	11/9/2015 12:26	11/9/2015	12:26	31	29	74	18	36.0	31.5	3.61	5336.6	5336.6
	11/9/2015 13:02	11/9/2015	13:02	32	28	80	20.5	41.2	1390.1	159.03	5495.7	5495.7
	11/9/2015 13:38	11/9/2015	13:38	32	25	78	21.5	43.3	1521.7	174.08	5669.7	5669.7
	11/9/2015 16:57	11/9/2015	16:57	32	25	76	21.5	43.4	8628.3	987.08	6656.8	6656.8
	11/9/2015 16:58	11/9/2015	16:58		20				43.4	4.96	6661.8	6661.8

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-205 Event 12	1/21/2016 7:36	1/21/2016	7:36	26	25	50	0	0.0				16679.5
	1/21/2016 7:57	1/21/2016	7:57	24	23	50	8	15.1	158.2	18.09	16697.6	
	1/21/2016 7:58	1/21/2016	7:58	34	31	50	18	38.1	26.6	3.04	16700.6	
	1/21/2016 9:14	1/21/2016	9:14	32	25	72	23	46.6	3218.5	368.20	17068.8	
	1/21/2016 12:41	1/21/2016	12:41	29.5	25	72	26	51.2	10127.1	1158.54	18227.4	
	1/21/2016 15:03	1/21/2016	15:03	29.5	24	73	26	51.2	7272.2	831.94	19059.3	
	1/21/2016 17:12	1/21/2016	17:12	29.5	22.5	66	26	51.5	6625.9	758.00	19817.3	
	1/21/2016 17:13	1/21/2016	17:13		18				51.5	5.90	19823.2	
SW-205 Event 13	1/27/2016 7:51	1/27/2016	7:51	26	26	61	3	5.7				19823.2
	1/27/2016 7:56	1/27/2016	7:56	25.5	25	61	5.5	10.4	40.4	4.63	19827.8	
	1/27/2016 7:57	1/27/2016	7:57	33	31.5	61	13.5	28.0	19.2	2.20	19830.0	
	1/27/2016 9:28	1/27/2016	9:28	30	25	67	22	43.8	3265.6	373.58	20203.6	
	1/27/2016 9:30	1/27/2016	9:30	33	29	67	26	53.5	97.3	11.14	20214.8	
	1/27/2016 11:11	1/27/2016	11:11	33.5	26.5	80	28	57.2	5592.0	639.73	20854.5	
	1/27/2016 12:31	1/27/2016	12:31	33.5	26.5	74	28	57.5	4590.4	525.14	21379.6	
	1/27/2016 12:32	1/27/2016	12:32		19				57.5	6.58	21386.2	
SW-205 Event 14	2/1/2016 11:27	2/1/2016	11:27	32	30	86	0	0.0				21386.2
	2/1/2016 11:33	2/1/2016	11:33	29	28	86	7	13.5	40.6	4.64	21390.9	
	2/1/2016 11:34	2/1/2016	11:34	35	31.5	86	13	26.8	20.2	2.31	21393.2	
	2/1/2016 12:52	2/1/2016	12:52	30.5	26	86	22	43.3	2733.6	312.72	21705.9	
	2/1/2016 12:53	2/1/2016	12:53	35	29	86	26	53.7	48.5	5.54	21711.4	
	2/1/2016 14:18	2/1/2016	14:18	34	27	86	28	57.2	4710.6	538.89	22250.3	
	2/1/2016 15:55	2/1/2016	15:55	34	27	80	28	57.5	5563.0	636.41	22886.7	
	2/1/2016 17:11	2/1/2016	17:11	33.5	26	76	30.5	62.6	4563.0	522.00	23408.7	
	2/1/2016 17:12	2/1/2016	17:12		19				62.6	7.16	23415.9	
SW-205 Event 15	2/8/2016 12:20	2/8/2016	12:20	30	30	72	4	7.9				23415.9
	2/8/2016 13:19	2/8/2016	13:19	27	26	75	14	26.7	1021.8	116.90	23532.8	
	2/8/2016 13:20	2/8/2016	13:20	34	32	75	19	39.2	33.0	3.77	23536.5	
	2/8/2016 14:40	2/8/2016	14:40	34	28	74	27	55.8	3800.0	434.72	23971.3	
	2/8/2016 14:50	2/8/2016	14:50	34	28	74	27	55.8	557.8	63.82	24035.1	
	2/8/2016 14:51	2/8/2016	14:51		21				55.8	6.38	24041.5	
SW-205 Event 16	2/11/2016 12:00	2/11/2016	12:00	30.5	30.5	76	4	7.9				24041.5
	2/11/2016 12:04	2/11/2016	12:04	35	33	76	7	14.6	45.1	5.15	24046.6	
	2/11/2016 12:10	2/11/2016	12:10	34	30	76	14	28.9	130.4	14.91	24061.5	
	2/11/2016 13:08	2/11/2016	13:08	30.5	27	75	21	41.7	2047.5	234.23	24295.8	
	2/11/2016 13:09	2/11/2016	13:09		20				41.7	4.77	24300.5	
SW-205 Event 17	2/17/2016 7:18	2/17/2016	7:18	31.5	31.5	53	4	8.2				24300.5
	2/17/2016 9:47	2/17/2016	9:47	27.5	24	74	20	38.4	3474.7	397.50	24698.0	
	2/17/2016 9:48	2/17/2016	9:48	34	27	74	28	57.8	48.1	5.51	24703.5	
	2/17/2016 12:35	2/17/2016	12:35	33	26	77	29	59.1	9766.5	1117.29	25820.8	
	2/17/2016 14:16	2/17/2016	14:16	33	26	80	30	61.0	6064.7	693.80	26514.6	
	2/17/2016 15:32	2/17/2016	15:32	33	25.5	80	30	61.0	4634.3	530.16	27044.8	
	2/17/2016 16:31	2/17/2016	16:31	33	25.5	78	30	61.1	3601.1	411.97	27456.8	
	2/17/2016 16:32	2/17/2016	16:32		19				61.1	6.99	27463.8	
SW-205 Event 18	2/19/2016 7:12	2/19/2016	7:12	27	29	49	0	0.0				27463.8
	2/19/2016 7:35	2/19/2016	7:35	26	24	51	14	27.0	310.7	35.54	27499.3	
	2/19/2016 7:36	2/19/2016	7:36	31	27	51	20.5	42.0	34.5	3.95	27503.2	
	2/19/2016 8:56	2/19/2016	8:56	29.5	25	68	22	43.5	3419.2	391.16	27894.4	
	2/19/2016 9:33	2/19/2016	9:33	29.5	25	71	23	45.4	1644.5	188.14	28082.5	
	2/19/2016 9:34	2/19/2016	9:34		18				45.4	5.19	28087.7	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-205 Event 19	2/22/2016 7:23	2/22/2016	7:23	26	26	63	0	0.0			28087.7
	2/22/2016 7:24	2/22/2016	7:24	29	27.5	63	7	13.8	6.9	0.79	28088.5
	2/22/2016 7:45	2/22/2016	7:45	28	25	64	15	29.3	452.7	51.79	28140.3
	2/22/2016 7:46	2/22/2016	7:46	32	28	64	20	40.8	35.1	4.01	28144.3
	2/22/2016 9:28	2/22/2016	9:28	29.5	25	71	22	43.4	4296.5	491.52	28635.8
	2/22/2016 9:29	2/22/2016	9:29	36	28	71	26	55.0	49.2	5.63	28641.5
	2/22/2016 11:33	2/22/2016	11:33	33	26	80	27	54.9	6811.7	779.26	29420.7
	2/22/2016 12:49	2/22/2016	12:49	32	25.5	83	27.5	55.1	4180.8	478.28	29899.0
	2/22/2016 15:23	2/22/2016	15:23	31.5	25	84	28	55.8	8541.2	977.11	30876.1
	2/22/2016 16:23	2/22/2016	16:23	31	24.5	78	28	55.8	3347.4	382.95	31259.1
	2/22/2016 16:57	2/22/2016	16:57	31	24.5	75	28	56.0	1899.8	217.34	31476.4
2/22/2016 16:58	2/22/2016	16:58		19.5				56.0	6.40	31482.8	
SW-205 Event 20	2/24/2016 7:31	2/24/2016	7:31	28	27.5	70	6	11.6			31482.8
	2/24/2016 7:44	2/24/2016	7:44	26.5	25	70	10	19.1	199.5	22.83	31505.6
	2/24/2016 7:46	2/24/2016	7:46	36	32	70	18	38.1	57.2	6.54	31512.2
	2/24/2016 8:49	2/24/2016	8:49	34	27	72	22	45.5	2634.9	301.43	31813.6
	2/24/2016 10:00	2/24/2016	10:00	32	26	80	25	50.3	3401.4	389.11	32202.7
	2/24/2016 11:42	2/24/2016	11:42	32.5	25.5	82	27	54.5	5342.5	611.18	32813.9
	2/24/2016 13:01	2/24/2016	13:01	32.5	25.5	86	28	56.3	4375.4	500.54	33314.4
	2/24/2016 14:16	2/24/2016	14:16	32.5	25.5	87	28	56.2	4219.5	482.71	33797.1
	2/24/2016 14:58	2/24/2016	14:58	32.5	25.5	85	28	56.3	2364.0	270.44	34067.6
	2/24/2016 14:59	2/24/2016	14:59		19				56.3	6.45	34074.0
Total CO ₂ Mass (lbs):											34074.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-206 Event 1	10/22/2015 8:02	10/22/2015	8:02	7	6	70	0	0.0			0
	10/22/2015 8:07	10/22/2015	8:07	12	13	71	0	0.0	0.0	0.00	0.0
	10/22/2015 8:10	10/22/2015	8:10	18	18	71	0	0.0	0.0	0.00	0.0
	10/22/2015 8:14	10/22/2015	8:14	20	21	72	0	0.0	0.0	0.00	0.0
	10/22/2015 8:16	10/22/2015	8:16	22	22	72	0	0.0	0.0	0.00	0.0
	10/22/2015 8:18	10/22/2015	8:18	24	24	73	0	0.0	0.0	0.00	0.0
	10/22/2015 8:22	10/22/2015	8:22	26	26	74	0	0.0	0.0	0.00	0.0
	10/22/2015 8:25	10/22/2015	8:25	28	27.5	74	3	5.8	8.7	0.99	1.0
	10/22/2015 8:28	10/22/2015	8:28	30	29	76	8	15.8	32.4	3.71	4.7
	10/22/2015 8:32	10/22/2015	8:32	32	31	76	10	20.2	72.0	8.23	12.9
	10/22/2015 8:39	10/22/2015	8:39	32	30.5	76	11	22.2	148.4	16.97	29.9
	10/22/2015 9:00	10/22/2015	9:00	32	29.5	77	14	28.2	529.6	60.59	90.5
	10/22/2015 9:18	10/22/2015	9:18	32	29	80	14.5	29.2	516.5	59.09	149.6
	10/22/2015 9:54	10/22/2015	9:54	32	29	82	15.5	31.1	1084.8	124.10	273.7
	10/22/2015 11:11	10/22/2015	11:11	32	28.5	90	16	31.9	2424.7	277.38	551.1
	10/22/2015 11:57	10/22/2015	11:57	32	28.5	90	17	33.9	1511.8	172.95	724.0
10/22/2015 13:42	10/22/2015	13:42	32	28	84	19	38.1	3775.9	431.97	1156.0	
10/22/2015 14:29	10/22/2015	14:29	32	27	88	20	39.9	1832.4	209.62	1365.6	
10/22/2015 14:30	10/22/2015	14:30		19				39.9	4.57	1370.2	
SW-206 Event 2	10/29/2015 7:56	10/29/2015	7:56	26	26	70	0	0.0			1370.2
	10/29/2015 8:00	10/29/2015	8:00	26	26	70	3.5	6.6	13.3	1.52	1371.7
	10/29/2015 8:01	10/29/2015	8:01	31	31	70	8	16.1	11.3	1.30	1373.0
	10/29/2015 8:04	10/29/2015	8:04	31	30	70	9	18.1	51.2	5.86	1378.9
	10/29/2015 9:42	10/29/2015	9:42	30	27	75	15	29.6	2338.1	267.48	1646.3
	10/29/2015 9:43	10/29/2015	9:43	34	30	75	18	37.2	33.4	3.82	1650.2
	10/29/2015 10:44	10/29/2015	10:44	34	27.5	82	22	45.1	2508.8	287.01	1937.2
	10/29/2015 10:46	10/29/2015	10:46	38	30	82	26	55.5	100.6	11.51	1948.7
	10/29/2015 12:07	10/29/2015	12:07	38	28	84	28	59.6	4662.4	533.37	2482.0
	10/29/2015 12:08	10/29/2015	12:08		20				59.6	6.82	2488.9
SW-206 Event 3	11/3/2015 11:42	11/3/2015	11:42	28	30	90	4	7.6			2488.9
	11/3/2015 11:43	11/3/2015	11:43	29	29	90	6	11.6	9.6	1.10	2490.0
	11/3/2015 12:13	11/3/2015	12:13	28	27	94	13	24.7	543.2	62.14	2552.1
	11/3/2015 12:14	11/3/2015	12:14	30	29	94	16	31.1	27.9	3.19	2555.3
	11/3/2015 12:17	11/3/2015	12:17	32	29	94	18	35.7	100.2	11.46	2566.7
	11/3/2015 12:44	11/3/2015	12:44	32	28	95	19.5	38.7	1004.1	114.87	2681.6
	11/3/2015 12:45	11/3/2015	12:45	34	29	95	21	42.5	40.6	4.64	2686.3
	11/3/2015 12:48	11/3/2015	12:48	36	30	95	24	49.6	138.2	15.81	2702.1
	11/3/2015 13:47	11/3/2015	13:47	35	26.5	89	27	55.6	3102.3	354.90	3057.0
	11/3/2015 13:48	11/3/2015	13:48	36	27	89	28	58.2	56.9	6.51	3063.5
	11/3/2015 14:49	11/3/2015	14:49	36	25.5	96	29.5	60.9	3633.1	415.62	3479.1
	11/3/2015 15:48	11/3/2015	15:48	36	25	92	30	62.2	3631.4	415.43	3894.5
	11/3/2015 16:50	11/3/2015	16:50	36	25	82	30	62.8	3873.6	443.14	4337.7
	11/3/2015 17:01	11/3/2015	17:01	36	25	80	30	62.9	691.2	79.07	4416.7
11/3/2015 17:02	11/3/2015	17:02		20				62.9	7.20	4423.9	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-206 Event 4	11/5/2015 11:36	11/5/2015	11:36	34	32	80	8	16.4				4423.9
	11/5/2015 11:39	11/5/2015	11:39	35	33	80	16	33.2		74.5	8.52	4432.5
	11/5/2015 12:19	11/5/2015	12:19	32	28	85	22	44.0		1544.7	176.71	4609.2
	11/5/2015 12:21	11/5/2015	12:21	35	33	85	26	53.7		97.7	11.18	4620.3
	11/5/2015 13:15	11/5/2015	13:15	34	28	85	30	61.3		3105.9	355.31	4975.7
	11/5/2015 15:30	11/5/2015	15:30	34	28	80	30	61.6		8299.2	949.43	5925.1
	11/5/2015 16:15	11/5/2015	16:15		20					2773.0	317.23	6242.3
SW-206 Event 5	11/10/2015 8:01	11/10/2015	8:01	26	26	66	0	0.0				6242.3
	11/10/2015 8:14	11/10/2015	8:14	24	26	66	10	18.5		120.5	13.78	6256.1
	11/10/2015 8:15	11/10/2015	8:15	29	27	66	16.5	32.5		25.5	2.92	6259.0
	11/10/2015 9:32	11/10/2015	9:32	29	24.5	73	20	39.1		2759.2	315.66	6574.7
	11/10/2015 10:47	11/10/2015	10:47	28	25	74	20	38.7		2917.6	333.78	6908.5
	11/10/2015 10:48	11/10/2015	10:48	32	26	74	24	48.5		43.6	4.99	6913.4
	11/10/2015 12:17	11/10/2015	12:17	32	26	74	24	48.5		4320.1	494.22	7407.7
	11/10/2015 12:18	11/10/2015	12:18		22					48.5	5.55	7413.2
SW-206 Event 6	1/25/2016 12:42	1/25/2016	12:42	29	29	76	0	0.0				7413.2
	1/25/2016 12:46	1/25/2016	12:46	33	31	76	10.5	21.4		42.8	4.90	7418.1
	1/25/2016 14:18	1/25/2016	14:18	30	26	77	21	41.4		2890.9	330.71	7748.8
	1/25/2016 14:19	1/25/2016	14:19	34	28	77	26	53.6		47.5	5.43	7754.3
	1/25/2016 16:07	1/25/2016	16:07	32.5	25.5	71	29	59.1		6086.0	696.24	8450.5
	1/25/2016 17:17	1/25/2016	17:17	31.5	25	64	29.5	59.9		4167.3	476.74	8927.3
	1/25/2016 17:18	1/25/2016	17:18		20					59.9	6.86	8934.1
SW-206 Event 7	2/3/2016 9:40	2/3/2016	9:40	27.5	27.5	76	4.5	8.6				8934.1
	2/3/2016 9:47	2/3/2016	9:47	34	31	76	12	24.7		116.8	13.36	8947.5
	2/3/2016 11:17	2/3/2016	11:17	30.5	26.5	79	20	39.6		2895.3	331.22	9278.7
	2/3/2016 11:18	2/3/2016	11:18	35	30.5	79	24	49.9		44.7	5.12	9283.8
	2/3/2016 12:42	2/3/2016	12:42	34.5	26.5	80	27	55.7		4435.4	507.41	9791.2
	2/3/2016 13:24	2/3/2016	13:24	34.5	26.5	80	28.5	58.8		2406.5	275.30	10066.5
	2/3/2016 13:26	2/3/2016	13:26		19					117.7	13.46	10080.0
	2/9/2016 11:50	2/9/2016	11:50	30	29	64	7	14.0				10080.0
SW-206 Event 8	2/9/2016 11:55	2/9/2016	11:55	36	33	64	14	29.8		109.5	12.53	10092.5
	2/9/2016 13:53	2/9/2016	13:53	33	28	66	23	47.4		4555.0	521.10	10613.6
	2/9/2016 13:55	2/9/2016	13:55		20.5					94.8	10.84	10624.5
	2/12/2016 7:22	2/12/2016	7:22	27	26	60	5	9.7				10624.5
SW-206 Event 9	2/12/2016 7:49	2/12/2016	7:49	25	23.5	62	11	20.7		410.6	46.97	10671.4
	2/12/2016 7:53	2/12/2016	7:53	31	28	62	20	40.5		122.4	14.01	10685.4
	2/12/2016 8:45	2/12/2016	8:45	30	26.5	66	20	39.9		2089.2	239.01	10924.4
	2/12/2016 8:46	2/12/2016	8:46	34	29	66	24.5	51.0		45.4	5.20	10929.6
	2/12/2016 9:44	2/12/2016	9:44	33.5	27	72	26	53.5		3032.1	346.88	11276.5
	2/12/2016 10:58	2/12/2016	10:58	33	26.5	73	27	55.3		4025.3	460.50	11737.0
	2/12/2016 11:58	2/12/2016	11:58	31.5	26	78	27.5	55.1		3310.7	378.74	12115.7
	2/12/2016 11:59	2/12/2016	11:59		20					55.1	6.30	12122.0
	2/15/2016 7:25	2/15/2016	7:25	29	28	48	4	8.0				12122.0
SW-206 Event 10	2/15/2016 8:18	2/15/2016	8:18	28	25.5	55	11	21.7		786.7	90.00	12212.0
	2/15/2016 8:19	2/15/2016	8:19	35	31	55	18	38.3		30.0	3.43	12215.5
	2/15/2016 10:01	2/15/2016	10:01	35	29.5	67	25	52.5		4632.6	529.97	12745.4
	2/15/2016 11:35	2/15/2016	11:35	34.5	28	68	27	56.4		5120.6	585.80	13331.2
	2/15/2016 12:58	2/15/2016	12:58	34.5	27.5	72	28	58.3		4758.6	544.39	13875.6
	2/15/2016 14:02	2/15/2016	14:02	34.5	27	75	29	60.2		3789.8	433.55	14309.2
	2/15/2016 16:02	2/15/2016	16:02	34.5	26.5	74	30	62.3		7348.3	840.64	15149.8

LCP Chemicals Site, Brunswick, GA
SW-206

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/15/2016 16:03	2/15/2016	16:03		19					62.3	7.13	15157.0

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-206 Event 11	2/26/2016 7:13	2/26/2016	7:13	27	27	44	5	9.8			15157.0
	2/26/2016 7:18	2/26/2016	7:18	25.5	24	44	11	21.2	77.7	8.89	15165.8
	2/26/2016 7:19	2/26/2016	7:19	31	27.5	44	18	37.1	29.2	3.34	15169.2
	2/26/2016 8:20	2/26/2016	8:20	29.5	25.5	60	22	43.9	2469.7	282.53	15451.7
	2/26/2016 8:21	2/26/2016	8:21	34	27.5	60	28	58.7	51.3	5.86	15457.6
	2/26/2016 9:16	2/26/2016	9:16	34	26.5	63	29	60.6	3278.5	375.06	15832.6
	2/26/2016 10:29	2/26/2016	10:29	33	25.5	66	30	61.8	4466.9	511.01	16343.6
	2/26/2016 11:10	2/26/2016	11:10	33	25	67	30	61.8	2533.1	289.79	16633.4
	2/26/2016 11:11	2/26/2016	11:11		19.5				61.8	7.06	16640.5
Total CO ₂ Mass (lbs):											16640.5

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-207 Event 1	10/20/2015 9:23	10/20/2015	9:23	10	12	74	0	0.0				0
	10/20/2015 9:33	10/20/2015	9:33	11	13	74	0	0.0		0.0	0.00	0.0
	10/20/2015 9:34	10/20/2015	9:34	18	20	74	0	0.0		0.0	0.00	0.0
	10/20/2015 11:46	10/20/2015	11:46	19	21	86	0	0.0		0.0	0.00	0.0
	10/20/2015 11:48	10/20/2015	11:48	23	23	86	0	0.0		0.0	0.00	0.0
	10/20/2015 13:18	10/20/2015	13:18	23	23	83	0	0.0		0.0	0.00	0.0
	10/20/2015 13:19	10/20/2015	13:19	26	26	83	4	7.5		3.7	0.43	0.4
	10/20/2015 14:44	10/20/2015	14:44	26	26	88	6	11.2		792.6	90.67	91.1
	10/20/2015 14:46	10/20/2015	14:46	28	28	88	8	15.3		26.4	3.02	94.1
	10/20/2015 15:11	10/20/2015	15:11	28	28	88	8	15.3		381.4	43.64	137.8
	10/20/2015 15:13	10/20/2015	15:13	30	30	88	10	19.5		34.8	3.98	141.7
	10/20/2015 15:36	10/20/2015	15:36	30	30	88	10	19.5		448.9	51.36	193.1
	10/20/2015 17:22	10/20/2015	17:22	30	28.5	80	12	23.6		2285.3	261.44	454.5
10/20/2015 17:23	10/20/2015	17:23		19					23.6	2.70	457.2	
SW-207 Event 2	11/2/2015 13:51	11/2/2015	13:51	30	30.5	96	0	0.0				457.2
	11/2/2015 14:07	11/2/2015	14:07	30	29	96	<2	0.0		0.0	0.00	457.2
	11/2/2015 14:08	11/2/2015	14:08	35	34.5	96	6	12.3		6.1	0.70	457.9
	11/2/2015 14:57	11/2/2015	14:57	34	33	96	11	22.3		845.8	96.76	554.7
	11/2/2015 14:58	11/2/2015	14:58	36	35	96	15	31.0		26.6	3.04	557.7
	11/2/2015 16:07	11/2/2015	16:07	36	34	88	16	33.3		2217.1	253.63	811.4
	11/2/2015 16:54	11/2/2015	16:54	36	33	84	17	35.5		1616.6	184.94	996.3
	11/2/2015 16:55	11/2/2015	16:55		19					35.5	4.06	1000.4
SW-207 Event 3	11/9/2015 8:27	11/9/2015	8:27	28	29	72	0	0.0				1000.4
	11/9/2015 8:44	11/9/2015	8:44	29	30	72	0	0.0		0.0	0.00	1000.4
	11/9/2015 8:45	11/9/2015	8:45	34	33	72	6	12.4		6.2	0.71	1001.1
	11/9/2015 12:00	11/9/2015	12:00	33	31	74	13	26.6		3802.2	434.98	1436.1
	11/9/2015 12:01	11/9/2015	12:01		22					26.6	3.04	1439.1
SW-207 Event 4	11/11/2015 8:08	11/11/2015	8:08	30	31	64	0	0.0				1439.1
	11/11/2015 8:28	11/11/2015	8:28	29	30	65	4	7.9		78.9	9.03	1448.1
	11/11/2015 8:29	11/11/2015	8:29	34	34	65	8	16.7		12.3	1.41	1449.5
	11/11/2015 10:54	11/11/2015	10:54	33	33	82	14	28.4		3268.0	373.86	1823.4
	11/11/2015 11:39	11/11/2015	11:39	33	32	84	15	30.4		1322.4	151.28	1974.7
	11/11/2015 12:51	11/11/2015	12:51	33	31	87	16	32.3		2256.4	258.13	2232.8
	11/11/2015 12:52	11/11/2015	12:52		21					32.3	3.70	2236.5
SW-207 Event 5	1/6/2016 7:40	1/6/2016	7:40	26.5	26	45	0	0.0				2236.5
	1/6/2016 8:08	1/6/2016	8:08	26	25.5	46	0	0.0		0.0	0.00	2236.5
	1/6/2016 8:09	1/6/2016	8:09	35	35	46	8	17.2		8.6	0.98	2237.5
	1/6/2016 10:11	1/6/2016	10:11	34	33	58	16	33.6		3096.3	354.21	2591.7
	1/6/2016 11:25	1/6/2016	11:25	34	33	64	16	33.4		2477.7	283.45	2875.2
	1/6/2016 13:30	1/6/2016	13:30	32	30.5	63	17	34.8		4258.7	487.19	3362.4
	1/6/2016 13:31	1/6/2016	13:31		22					34.8	3.98	3366.3
SW-207 Event 6	1/14/2016 7:29	1/14/2016	7:29	27	27.5	40	0	0.0				3366.3
	1/14/2016 7:53	1/14/2016	7:53	27	26.5	41	0	0.0		0.0	0.00	3366.3
	1/14/2016 7:54	1/14/2016	7:54	34	33.5	41	6.5	13.9		6.9	0.79	3367.1
	1/14/2016 9:35	1/14/2016	9:35	32	32	61	12	24.6		1942.5	222.22	3589.3
	1/14/2016 11:36	1/14/2016	11:36	32	31	76	14	28.3		3197.0	365.74	3955.1
	1/14/2016 12:53	1/14/2016	12:53	32	31	70	14.5	29.4		2221.5	254.14	4209.2
	1/14/2016 12:54	1/14/2016	12:54		22					29.4	3.37	4212.6

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-207 Event 7	1/19/2016 7:25	1/19/2016	7:25	28	29	33	0	0.0				4212.6
	1/19/2016 7:52	1/19/2016	7:52	28	28.5	34	0	0.0	0.0	0.00		4212.6
	1/19/2016 7:53	1/19/2016	7:53	34	34.5	34	5	10.8	5.4	0.62		4213.2
	1/19/2016 9:38	1/19/2016	9:38	33.5	33.5	58	11	23.0	1770.6	202.56		4415.8
	1/19/2016 11:15	1/19/2016	11:15	33	32.5	63	13	26.9	2416.9	276.49		4692.3
	1/19/2016 13:50	1/19/2016	13:50	33	32	68	14	28.8	4313.3	493.44		5185.7
	1/19/2016 13:51	1/19/2016	13:51		22.5				28.8	3.29		5189.0
SW-207 Event 8	1/26/2016 7:35	1/26/2016	7:35	29	28	54	0	0.0				5189.0
	1/26/2016 9:19	1/26/2016	9:19	28	27	61	4	7.8	407.2	46.58		5235.6
	1/26/2016 9:20	1/26/2016	9:20	35	34	61	9	19.0	13.4	1.54		5237.1
	1/26/2016 11:45	1/26/2016	11:45	34.5	32	77	14	29.0	3481.4	398.28		5635.4
	1/26/2016 13:47	1/26/2016	13:47	34	32	77	14.5	29.9	3590.5	410.75		6046.1
	1/26/2016 14:58	1/26/2016	14:58	34	31.5	77	15	30.9	2157.4	246.80		6292.9
	1/26/2016 14:59	1/26/2016	14:59		23				30.9	3.54		6296.5
SW-207 Event 9	1/28/2016 7:05	1/28/2016	7:05	31	30	60	0	0.0				6296.5
	1/28/2016 7:35	1/28/2016	7:35	28	28.5	60	3	5.9	88.2	10.09		6306.6
	1/28/2016 7:36	1/28/2016	7:36	34	34	60	7.5	15.7	10.8	1.23		6307.8
	1/28/2016 9:25	1/28/2016	9:25	33.5	32	63	12.5	26.0	2271.6	259.87		6567.7
	1/28/2016 9:26	1/28/2016	9:26	36	34	63	14	29.8	27.9	3.19		6570.9
	1/28/2016 11:23	1/28/2016	11:23	36	32	65	17	36.2	3861.6	441.76		7012.6
	1/28/2016 11:55	1/28/2016	11:55	36	32	65	17	36.2	1157.3	132.40		7145.0
	1/28/2016 11:56	1/28/2016	11:56		22.5				36.2	4.14		7149.2
SW-207 Event 10	2/2/2016 10:26	2/2/2016	10:26	30	29	84	0	0.0				7149.2
	2/2/2016 10:30	2/2/2016	10:30	35	34	84	<2	0.0	0.0	0.00		7149.2
	2/2/2016 12:36	2/2/2016	12:36	35	33.5	80	11	22.8	1438.2	164.53		7313.7
	2/2/2016 14:37	2/2/2016	14:37	34	32.5	83	12	24.6	2868.2	328.12		7641.8
	2/2/2016 14:39	2/2/2016	14:39		21				49.2	5.62		7647.4
SW-207 Event 11	2/4/2016 10:52	2/4/2016	10:52	32	31	64	0	0.0				7647.4
	2/4/2016 10:57	2/4/2016	10:57	36	35	64	0	0.0	0.0	0.00		7647.4
	2/4/2016 11:33	2/4/2016	11:33	34	32.5	64	6	12.5	225.3	25.78		7673.2
	2/4/2016 11:35	2/4/2016	11:35	37	35	64	10	21.5	34.0	3.89		7677.1
	2/4/2016 14:05	2/4/2016	14:05	36.5	33	64	19	40.7	4662.9	533.43		8210.5
	2/4/2016 14:07	2/4/2016	14:07		21.5				81.3	9.30		8219.8
SW-207 Event 12	2/10/2016 7:24	2/10/2016	7:24	33.5	33	38	0	0.0				8219.8
	2/10/2016 7:57	2/10/2016	7:57	32	31	42	4	8.4	137.8	15.77		8235.6
	2/10/2016 7:58	2/10/2016	7:58	37	36	42	7	15.4	11.9	1.36		8237.0
	2/10/2016 9:27	2/10/2016	9:27	37	35	53	13.5	29.4	1991.7	227.85		8464.8
	2/10/2016 11:06	2/10/2016	11:06	37	34.5	57	18	39.0	3383.2	387.04		8851.8
	2/10/2016 13:30	2/10/2016	13:30	37	33	62	20	43.1	5910.4	676.15		9528.0
	2/10/2016 15:07	2/10/2016	15:07	37	32.5	63	22	47.4	4387.7	501.95		10030.0
	2/10/2016 15:10	2/10/2016	15:10		22.5				142.1	16.26		10046.2
SW-207 Event 13	2/16/2016 7:12	2/16/2016	7:12	29.5	29	61	0	0.0				10046.2
	2/16/2016 7:41	2/16/2016	7:41	27	26	61	7	13.5	196.3	22.46		10068.7
	2/16/2016 7:42	2/16/2016	7:42	37	36	61	9.5	20.5	17.0	1.95		10070.6
	2/16/2016 9:29	2/16/2016	9:29	37	35	71	15	32.0	2810.6	321.53		10392.1
	2/16/2016 10:37	2/16/2016	10:37	37	34.5	74	16.5	35.1	2284.1	261.30		10653.4
	2/16/2016 12:55	2/16/2016	12:55	37	34	78	18	38.2	5059.5	578.81		11232.3
	2/16/2016 13:23	2/16/2016	13:23	37	33	80	18	38.1	1068.2	122.20		11354.5
	2/16/2016 13:24	2/16/2016	13:24		23				38.1	4.36		11358.8

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-207 Event 14	2/18/2016 7:26	2/18/2016	7:26	34	33	47	0	0.0				11358.8
	2/18/2016 7:43	2/18/2016	7:43	33	32	50	3.5	7.3		62.3	7.13	11365.9
	2/18/2016 7:44	2/18/2016	7:44	35	34	50	5	10.7		9.0	1.03	11367.0
	2/18/2016 9:30	2/18/2016	9:30	34.5	33.5	68	7	14.6		1341.6	153.48	11520.4
	2/18/2016 9:31	2/18/2016	9:31	36	36	68	8.5	18.0		16.3	1.87	11522.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/18/2016 10:23	2/18/2016	10:23	37	36	70	10	21.4		1024.7	117.22	11639.5
	2/18/2016 12:04	2/18/2016	12:04	37	36	73	11	23.4		2263.9	259.00	11898.5
	2/18/2016 13:09	2/18/2016	13:09	37	36	75	12	25.5		1591.9	182.11	12080.6
	2/18/2016 14:46	2/18/2016	14:46	36	35	74	12.5	26.4		2516.7	287.91	12368.6
	2/18/2016 14:47	2/18/2016	14:47		25.5					26.4	3.02	12371.6
<u>SW-207 Event 15</u>	2/23/2016 7:30	2/23/2016	7:30	32	31.5	68	0	0.0				12371.6
	2/23/2016 8:01	2/23/2016	8:01	31	30.5	68	0	0.0		0.0	0.00	12371.6
	2/23/2016 8:03	2/23/2016	8:03	37	36	68	4	8.6		8.6	0.98	12372.6
	2/23/2016 9:16	2/23/2016	9:16	37	36	70	4.5	9.6		664.0	75.96	12448.5
	2/23/2016 11:15	2/23/2016	11:15	37	35.5	81	6	12.7		1327.6	151.88	12600.4
	2/23/2016 13:47	2/23/2016	13:47	37	35	87	6.5	13.7		2003.6	229.21	12829.6
	2/23/2016 13:48	2/23/2016	13:48		25					13.7	1.56	12831.2
<u>SW-207 Event 16</u>	2/25/2016 7:27	2/25/2016	7:27	32	31.5	52	0	0.0				12831.2
	2/25/2016 7:34	2/25/2016	7:34	32	31	53	0	0.0		0.0	0.00	12831.2
	2/25/2016 7:35	2/25/2016	7:35	35	34	53	0	0.0		0.0	0.00	12831.2
	2/25/2016 8:53	2/25/2016	8:53	35	34	62	4	8.4		329.5	37.70	12868.9
	2/25/2016 10:16	2/25/2016	10:16	35	34	66	4.5	9.5		743.5	85.06	12953.9
	2/25/2016 11:45	2/25/2016	11:45	35	34	70	5	10.5		887.6	101.54	13055.5
	2/25/2016 12:36	2/25/2016	12:36	35	34	70	5	10.5		534.4	61.13	13116.6
	2/25/2016 14:18	2/25/2016	14:18	34	33	73	5.5	11.4		1114.5	127.50	13244.1
	2/25/2016 14:54	2/25/2016	14:54	34	33	73	5.5	11.4		409.5	46.84	13290.9
	2/25/2016 14:55	2/25/2016	14:55		22.5					11.4	1.30	13292.2
<u>SW-207 Event 17</u>	3/1/2016 7:32	3/1/2016	7:32	32	32	58	0	0.0				13292.2
	3/1/2016 7:44	3/1/2016	7:44	32	31	60	0	0.0		0.0	0.00	13292.2
	3/1/2016 7:45	3/1/2016	7:45	36	36	60	0	0.0		0.0	0.00	13292.2
	3/1/2016 9:53	3/1/2016	9:53	36	36	80	4	8.4		536.7	61.40	13353.6
	3/1/2016 12:45	3/1/2016	12:45	36	36	85	5.5	11.5		1708.1	195.41	13549.0
	3/1/2016 14:18	3/1/2016	14:18	36	36	88	6	12.5		1114.1	127.45	13676.5
	3/1/2016 14:19	3/1/2016	14:19		22					12.5	1.43	13677.9
<u>SW-207 Event 18</u>	3/3/2016 7:28	3/3/2016	7:28	32	31	50	0	0.0				13677.9
	3/3/2016 7:56	3/3/2016	7:56	31	30.5	58	0	0.0		0.0	0.00	13677.9
	3/3/2016 7:57	3/3/2016	7:57	37	36	58	4	8.7		4.3	0.50	13678.4
	3/3/2016 8:42	3/3/2016	8:42	37	36	69	5	10.7		435.5	49.82	13728.2
	3/3/2016 10:37	3/3/2016	10:37	37	36	80	6	12.7		1345.8	153.96	13882.2
	3/3/2016 12:29	3/3/2016	12:29	37	35.5	81	7	14.8		1540.6	176.25	14058.4
	3/3/2016 13:34	3/3/2016	13:34	37	35.5	82	7.5	15.8		996.4	113.98	14172.4
	3/3/2016 15:03	3/3/2016	15:03	36	35	86	8	16.7		1447.4	165.58	14338.0
	3/3/2016 16:04	3/3/2016	16:04	36	35	83	8.5	17.8		1050.6	120.18	14458.2
	3/3/2016 16:05	3/3/2016	16:05		22					17.8	2.03	14460.2

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-207 Event 19	3/8/2016 7:19	3/8/2016	7:19	32	31	62	0	0.0				14460.2
	3/8/2016 7:52	3/8/2016	7:52	30	30	66	0	0.0	0.0	0.00		14460.2
	3/8/2016 7:53	3/8/2016	7:53	37	36	66	<2	0.0	0.0	0.00		14460.2
	3/8/2016 9:35	3/8/2016	9:35	38	37	86	0	0.0	0.0	0.00		14460.2
	3/8/2016 11:19	3/8/2016	11:19	38	37	89	0	0.0	0.0	0.00		14460.2
	3/8/2016 12:28	3/8/2016	12:28	38	37	89	0	0.0	0.0	0.00		14460.2
	3/8/2016 14:05	3/8/2016	14:05	38	37	89	0	0.0	0.0	0.00		14460.2
	3/8/2016 15:15	3/8/2016	15:15	38	37	88	<2	0.0	0.0	0.00		14460.2
	3/8/2016 16:49	3/8/2016	16:49	38	37	85	3	6.4	300.0	34.32		14494.6
	3/8/2016 16:52	3/8/2016	16:52						19.2	2.19		14496.7
SW-207 Event 20	3/10/2016 7:27	3/10/2016	7:27	30	30	75	0	0.0				14496.7
	3/10/2016 7:28	3/10/2016	7:28	37	36	75	0	0.0	0.0	0.00		14496.7
	3/10/2016 7:56	3/10/2016	7:56	37	36	76	0	0.0	0.0	0.00		14496.7
	3/10/2016 9:11	3/10/2016	9:11	37	36	80	0	0.0	0.0	0.00		14496.7
	3/10/2016 10:58	3/10/2016	10:58	37	36	86	<2	0.0	0.0	0.00		14496.7
	3/10/2016 12:31	3/10/2016	12:31	37	36	89	<2	0.0	0.0	0.00		14496.7
	3/10/2016 13:51	3/10/2016	13:51	37	35.5	89	3	6.3	251.9	28.82		14525.6
	3/10/2016 15:18	3/10/2016	15:18	36.5	35	88	4	8.4	637.8	72.96		14598.5
	3/10/2016 16:52	3/10/2016	16:52	36	35	86	4	8.3	785.0	89.80		14688.3
	3/10/2016 16:53	3/10/2016	16:53		24				8.3	0.95		14689.3
SW-207 Event 21	3/15/2016 7:47	3/15/2016	7:47	34	34	70	0	0.0				14689.3
	3/15/2016 8:50	3/15/2016	8:50	31	32	84	0	0.0	0.0	0.00		14689.3
	3/15/2016 8:51	3/15/2016	8:51	36	37	84	<2	0.0	0.0	0.00		14689.3
	3/15/2016 11:18	3/15/2016	11:18	36	37	88	3	6.2	458.8	52.48		14741.8
	3/15/2016 13:40	3/15/2016	13:40	35.5	36.5	95	4.5	9.3	1100.2	125.86		14867.6
	3/15/2016 16:14	3/15/2016	16:14	35	36	101	5.5	11.2	1574.3	180.10		15047.7
	3/15/2016 17:09	3/15/2016	17:09	35	36	100	6	12.2	643.8	73.65		15121.4
	3/15/2016 17:10	3/15/2016	17:10		25				12.2	1.40		15122.8
SW-207 Event 22	3/16/2016 7:48	3/16/2016	7:48	36	35	72	4	8.5				15122.8
	3/16/2016 9:21	3/16/2016	9:21	35	34	81	5	10.4	875.0	100.11		15222.9
	3/16/2016 9:22	3/16/2016	9:22	37	36	81	6	12.7	11.5	1.32		15224.2
	3/16/2016 11:57	3/16/2016	11:57	37	36	90	7	14.7	2121.4	242.69		15466.9
	3/16/2016 14:48	3/16/2016	14:48	36	35	95	8.5	17.6	2757.3	315.44		15782.3
	3/16/2016 15:47	3/16/2016	15:47	36	35	95	9	18.6	1067.0	122.07		15904.4
	3/16/2016 15:48	3/16/2016	15:48		26				18.6	2.13		15906.5
SW-207 Event 23	3/23/2016 13:18	3/23/2016	13:18	33	34	88	0	0.0				15906.5
	3/23/2016 14:19	3/23/2016	14:19	33	34	90	0	0.0	0.0	0.00		15906.5
	3/23/2016 16:03	3/23/2016	16:03	33	34	90	0	0.0	0.0	0.00		15906.5
	3/23/2016 16:04	3/23/2016	16:04		25				0.0	0.00		15906.5
SW-207 Event 24	3/24/2016 7:27	3/24/2016	7:27	33	34	58	0	0.0				15906.5
	3/24/2016 9:40	3/24/2016	9:40	33	34	87	0	0.0	0.0	0.00		15906.5
	3/24/2016 9:42	3/24/2016	9:42	36	37	87	0	0.0	0.0	0.00		15906.5
	3/24/2016 12:19	3/24/2016	12:19	36	36	89	3	6.2	489.5	56.00		15962.5
	3/24/2016 13:37	3/24/2016	13:37	36	35	89	4	8.3	567.4	64.92		16027.4
	3/24/2016 15:21	3/24/2016	15:21	36	35	90	5	10.4	972.3	111.23		16138.7
	3/24/2016 16:33	3/24/2016	16:33	36	34.5	87	6	12.5	823.6	94.22		16232.9
	3/24/2016 16:34	3/24/2016	16:34		25				12.5	1.43		16234.3
SW-207 Event 25	3/28/2016 7:40	3/28/2016	7:40	33	34	70	0	0.0				16234.3
	3/28/2016 10:22	3/28/2016	10:22	33	34	81	0	0.0	0.0	0.00		16234.3
	3/28/2016 10:24	3/28/2016	10:24	36	37	81	0	0.0	0.0	0.00		16234.3

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	3/28/2016 12:18	3/28/2016	12:18	36	37	86	0	0.0		0.0	0.00	16234.3
	3/28/2016 13:33	3/28/2016	13:33	36	36	87	0	0.0		0.0	0.00	16234.3
	3/28/2016 14:57	3/28/2016	14:57	36	36	89	0	0.0		0.0	0.00	16234.3
	3/28/2016 16:02	3/28/2016	16:02	36	35	92	<2	0.0		0.0	0.00	16234.3
	3/28/2016 16:59	3/28/2016	16:59	35	35	90	<2	0.0		0.0	0.00	16234.3
	3/28/2016 17:00	3/28/2016	17:00		25					0.0	0.00	16234.3
SW-207 Event 26	3/29/2016 7:57	3/29/2016	7:57	33	34	62	0	0.0				16234.3
	3/29/2016 9:10	3/29/2016	9:10	33	34	78	0	0.0		0.0	0.00	16234.3
	3/29/2016 13:52	3/29/2016	13:52	32.5	33.5	90	<2	0.0		0.0	0.00	16234.3
	3/29/2016 16:44	3/29/2016	16:44	31	32	76	4.5	9.0		772.7	88.39	16322.7
	3/29/2016 16:45	3/29/2016	16:45		24					9.0	1.03	16323.7
SW-207 Event 27	3/30/2016 7:58	3/30/2016	7:58	33	34	60	<2	0.0				16323.7
	3/30/2016 9:19	3/30/2016	9:19	32	33	75	5	10.1		409.2	46.81	16370.5
	3/30/2016 13:07	3/30/2016	13:07	31	32	85	6	11.9		2505.7	286.65	16657.2
	3/30/2016 16:09	3/30/2016	16:09	30	31	88	7	13.7		2324.1	265.88	16923.1
	3/30/2016 16:10	3/30/2016	16:10		25					13.7	1.56	16924.6
SW-207 Event 28	3/31/2016 8:13	3/31/2016	8:13	35	35	78	5	10.4				16924.6
	3/31/2016 12:18	3/31/2016	12:18	35	35	92	6	12.3		2781.8	318.23	17242.9
	3/31/2016 17:07	3/31/2016	17:07	31	32	90	9	17.7		4341.2	496.63	17739.5
	3/31/2016 17:08	3/31/2016	17:08		25					17.7	2.03	17741.5
SW-207 Event 29	4/1/2016 8:25	4/1/2016	8:25	35	35	77	6	12.5				17741.5
	4/1/2016 12:25	4/1/2016	12:25	32	33	92	9	17.9		3645.8	417.08	18158.6
	4/1/2016 16:00	4/1/2016	16:00	30	31	90	10.5	20.5		4122.6	471.62	18630.2
	4/1/2016 16:01	4/1/2016	16:01		25					20.5	2.34	18632.6
SW-207 Event 30	4/2/2016 8:54	4/2/2016	8:54	31	29	75	13	26.0				18632.6
	4/2/2016 8:55	4/2/2016	8:55	35	32	75	17	35.5		30.7	3.51	18636.1
	4/2/2016 9:37	4/2/2016	9:37	35	33	78	15	31.2		1399.5	160.10	18796.2
	4/2/2016 10:28	4/2/2016	10:28	35	32	82	15	31.1		1587.7	181.63	18977.8
	4/2/2016 10:59	4/2/2016	10:59	35	32	84	15	31.0		962.3	110.09	19087.9
	4/2/2016 11:00	4/2/2016	11:00		27					31.0	3.55	19091.5
SW-207 Event 31	4/4/2016 8:13	4/4/2016	8:13	34	35	64	0	0.0				19091.5
	4/4/2016 9:01	4/4/2016	9:01	34	35	72	0	0.0		0.0	0.00	19091.5
	4/4/2016 10:13	4/4/2016	10:13	33	34	80	<2	0.0		0.0	0.00	19091.5
	4/4/2016 14:06	4/4/2016	14:06	33	34	92	<2	0.0		0.0	0.00	19091.5
	4/4/2016 17:35	4/4/2016	17:35	32	32	90	4	8.0		832.6	95.25	19186.7
	4/4/2016 17:36	4/4/2016	17:36		25					8.0	0.91	19187.6
SW-207 Event 32	4/5/2016 8:19	4/5/2016	8:19	35	37	72	0	0.0				19187.6
	4/5/2016 12:22	4/5/2016	12:22	34	36	88	3	6.1		743.0	85.00	19272.6
	4/5/2016 16:18	4/5/2016	16:18	33	34	86	8	16.2		2629.4	300.81	19573.4
	4/5/2016 16:20	4/5/2016	16:20		25					32.3	3.70	19577.1
SW-207 Event 33	4/6/2016 8:03	4/6/2016	8:03	35	36	72	0	0.0				19577.1
	4/6/2016 9:25	4/6/2016	9:25	35	36	73	4	8.4		342.7	39.20	19616.3
	4/6/2016 14:15	4/6/2016	14:15	34.5	35.5	80	7	14.5		3307.6	378.39	19994.7
	4/6/2016 16:07	4/6/2016	16:07	34	35	85	10	20.4		1954.2	223.56	20218.3
	4/6/2016 16:08	4/6/2016	16:08		26					20.4	2.34	20220.6
SW-207 Event 34	4/7/2016 7:44	4/7/2016	7:44	35	36	68	7	14.7				20220.6
	4/7/2016 12:12	4/7/2016	12:12	34	34	85	11	22.5		4982.9	570.04	20790.7
	4/7/2016 12:13	4/7/2016	12:13		26					22.5	2.57	20793.2
Total CO ₂ Mass (lbs):											20793.2	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-208 Event 1	10/21/2015 8:19	10/21/2015	8:19	20	22	74	0	0.0				0
	10/21/2015 8:31	10/21/2015	8:31	20	21	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:32	10/21/2015	8:32	22	24	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:36	10/21/2015	8:36	23	24	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:37	10/21/2015	8:37	25	26	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:42	10/21/2015	8:42	26	27	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:43	10/21/2015	8:43	28	29	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:48	10/21/2015	8:48	28	29	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:49	10/21/2015	8:49	30	31.5	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:54	10/21/2015	8:54	30	31.5	74	0	0.0		0.0	0.00	0.0
	10/21/2015 8:55	10/21/2015	8:55	32	34	74	4	8.1		4.0	0.46	0.5
	10/21/2015 9:13	10/21/2015	9:13	32	32	74	5	10.1		163.8	18.74	19.2
	10/21/2015 9:14	10/21/2015	9:14	34	34	74	6.5	13.4		11.8	1.35	20.6
	10/21/2015 10:30	10/21/2015	10:30	34	33	86	9.5	19.4		1247.6	142.73	163.3
	10/21/2015 10:31	10/21/2015	10:31	35	34	86	12	24.8		22.1	2.53	165.8
	10/21/2015 12:41	10/21/2015	12:41	35	33	87	13	26.8		3351.6	383.42	549.2
	10/21/2015 13:41	10/21/2015	13:41	35	33	87	14	28.9		1669.9	191.03	740.3
	10/21/2015 14:44	10/21/2015	14:44	35	33	83	15	31.0		1887.0	215.87	956.1
	10/21/2015 16:02	10/21/2015	16:02	35	33	83	16	33.1		2501.9	286.22	1242.3
	10/21/2015 16:58	10/21/2015	16:58	35	32.5	79	16	33.2		1857.8	212.53	1454.9
10/21/2015 16:59	10/21/2015	16:59		22					33.2	3.80	1458.7	
SW-208 Event 2	10/29/2015 7:51	10/29/2015	7:51	30	31	70	0	0.0				1458.7
	10/29/2015 7:58	10/29/2015	7:58	30	30.5	70	0	0.0		0.0	0.00	1458.7
	10/29/2015 7:59	10/29/2015	7:59	34	34	70	0	0.0		0.0	0.00	1458.7
	10/29/2015 8:03	10/29/2015	8:03	34	33.5	70	4	8.3		16.6	1.90	1460.6
	10/29/2015 9:43	10/29/2015	9:43	32	30	75	10	20.2		1425.1	163.03	1623.6
	10/29/2015 9:44	10/29/2015	9:44	36	34	75	14	29.5		24.8	2.84	1626.5
	10/29/2015 10:42	10/29/2015	10:42	36	33	82	14.5	30.3		1735.2	198.50	1825.0
	10/29/2015 10:43	10/29/2015	10:43	37	34	82	16	33.8		32.1	3.67	1828.6
	10/29/2015 12:06	10/29/2015	12:06	37	33.5	84	17	35.9		2891.3	330.77	2159.4
	10/29/2015 12:09	10/29/2015	12:09		22.5					107.6	12.31	2171.7

SW-208 Event 3	11/3/2015 7:38	11/3/2015 7:38	30	30	79	0	0.0			2171.7
	11/3/2015 7:42	11/3/2015 7:42	34	33	79	<2	0.0	0.0	0.00	2171.7
	11/3/2015 7:50	11/3/2015 7:50	34	31	80	12	24.6	98.6	11.28	2183.0
	11/3/2015 7:51	11/3/2015 7:51	36	33	80	14	29.4	27.0	3.09	2186.1
	11/3/2015 8:19	11/3/2015 8:19	36	31.5	80	18	37.7	939.2	107.45	2293.5
	11/3/2015 8:20	11/3/2015 8:20	39	34	80	20.5	44.3	41.0	4.69	2298.2
	11/3/2015 8:51	11/3/2015 8:51	39	33	81	22	47.4	1421.3	162.59	2460.8
	11/3/2015 8:52	11/3/2015 8:52	40	33.5	81	22.5	49.0	48.2	5.52	2466.3
	11/3/2015 9:46	11/3/2015 9:46	40	33	82	24	52.2	2731.6	312.50	2778.8
	11/3/2015 9:47	11/3/2015 9:47	41	33.5	82	25	54.9	53.5	6.12	2784.9
	11/3/2015 10:45	11/3/2015 10:45	41	32.5	87	26	56.8	3238.3	370.46	3155.4
	11/3/2015 10:46	11/3/2015 10:46	43	33.5	87	27	60.0	58.4	6.68	3162.1
	11/3/2015 11:28	11/3/2015 11:28	42	34	88	27.5	60.6	2532.6	289.74	3451.8
	11/3/2015 11:30	11/3/2015 11:30		20						3451.8
SW-208 Event 4	11/5/2015 7:20	11/5/2015 7:20	35	36	78	0	0.0			3451.8
	11/5/2015 7:59	11/5/2015 7:59	34	34	78	10	20.6	401.3	45.91	3497.7
	11/5/2015 8:44	11/5/2015 8:44	33	32	78	12	24.4	1012.9	115.88	3613.6
	11/5/2015 8:45	11/5/2015 8:45	35	34	78	16	33.3	28.9	3.30	3616.9
	11/5/2015 9:45	11/5/2015 9:45	35	33	80	16	33.2	1994.3	228.15	3845.0
	11/5/2015 11:00	11/5/2015 11:00	35	34	80	18	37.4	2646.1	302.72	4147.8
	11/5/2015 11:30	11/5/2015 11:30		22				1120.7	128.21	4276.0
	SW-208 Event 5	11/10/2015 8:00	11/10/2015 8:00	28	26	66	0	0.0		
11/10/2015 8:11		11/10/2015 8:11	29	30	66	0	0.0	0.0	0.00	4276.0
11/10/2015 8:12		11/10/2015 8:12	34	34	66	4	8.3	4.2	0.48	4276.4
11/10/2015 9:33		11/10/2015 9:33	34	32.5	73	8	16.5	1007.4	115.24	4391.7
11/10/2015 9:34		11/10/2015 9:34	36	34	73	10	21.1	18.8	2.15	4393.8
11/10/2015 10:49		11/10/2015 10:49	36	34	74	13	27.4	1819.5	208.15	4602.0
11/10/2015 12:15		11/10/2015 12:15	36	33	74	14	29.5	2448.2	280.07	4882.1
11/10/2015 12:16		11/10/2015 12:16		26				29.5	3.38	4885.4
SW-208 Event 6	11/23/2015 7:38	11/23/2015 7:38	26.5	27	46	0	0			4885.4
	11/23/2015 8:13	11/23/2015 8:13	26	27	51	0	0.0	0.0	0.00	4885.4
	11/23/2015 8:15	11/23/2015 8:15	34	33.5	51	7.5	15.9	15.9	1.81	4887.3
	11/23/2015 10:05	11/23/2015 10:05	32	32	66	12	24.5	2217.3	253.66	5140.9
	11/23/2015 10:07	11/23/2015 10:07	34	34	66	15	31.2	55.7	6.37	5147.3
	11/23/2015 12:24	11/23/2015 12:24	33.5	33	72	16	32.9	4396.5	502.96	5650.3
	11/23/2015 13:06	11/23/2015 13:06	33	32.5	76	16.5	33.7	1398.9	160.04	5810.3
	11/23/2015 13:07	11/23/2015 13:07		24				33.7	3.85	5814.1
SW-208 Event 7	12/4/2015 7:33	12/4/2015 7:33	32	32.5	56	0	0.0			5814.1
	12/4/2015 8:36	12/4/2015 8:36	32	31.5	58	6	12.3	388.3	44.43	5858.6
	12/4/2015 8:37	12/4/2015 8:37	36	35	58	10	21.4	16.9	1.93	5860.5
	12/4/2015 9:51	12/4/2015 9:51	33	33	70	11	22.6	1628.0	186.24	6046.7
	12/4/2015 9:52	12/4/2015 9:52	34	34	70	13	27.0	24.8	2.83	6049.6
	12/4/2015 11:05	12/4/2015 11:05	33	33	70	13	26.7	1958.0	224.00	6273.6
	12/4/2015 12:12	12/4/2015 12:12	35.5	34.5	72	16	33.6	2020.6	231.15	6504.7
	12/4/2015 12:13	12/4/2015 12:13		23				33.6	3.85	6508.6
SW-208 Event 8	12/11/2015 7:32	12/11/2015 7:32	39	39	52	0	0.0			6508.6
	12/11/2015 8:02	12/11/2015 8:02	38	38	52	8	17.6	263.8	30.18	6538.7
	12/11/2015 9:04	12/11/2015 9:04	34	34	70	8	16.6	1059.6	121.22	6660.0
	12/11/2015 10:54	12/11/2015 10:54	33	33	78	12	24.4	2256.7	258.17	6918.1
	12/11/2015 10:55	12/11/2015 10:55		22				24.4	2.80	6920.9

SW-208 Event 9	12/18/2015 7:42	12/18/2015 7:42	28	28.5	69	0	0.0			6920.9
	12/18/2015 8:16	12/18/2015 8:16	23	23.5	69	12	21.9	372.0	42.55	6963.5
	12/18/2015 8:18	12/18/2015 8:18	35	31	69	24	50.3	72.2	8.26	6971.7
	12/18/2015 9:28	12/18/2015 9:28	34	26.5	68	26	54.0	3653.2	417.93	7389.7
	12/18/2015 10:21	12/18/2015 10:21	34	26	73	25.5	52.7	2829.3	323.68	7713.3
	12/18/2015 11:25	12/18/2015 11:25	33	26	74	24	49.1	3257.6	372.67	8086.0
	12/18/2015 12:35	12/18/2015 12:35	33	25.5	73	24	49.1	3436.2	393.11	8479.1
	12/18/2015 13:19	12/18/2015 13:19	33	25.5	74	24	49.1	2159.9	247.09	8726.2
	12/18/2015 14:23	12/18/2015 14:23	36	26.5	75	26.5	55.8	3356.5	383.99	9110.2
	12/18/2015 14:24	12/18/2015 14:24		20				55.8	6.39	9116.6
SW-208 Event 10	12/21/2015 7:49	12/21/2015 7:49	30	31	61	0	0.0			9116.6
	12/21/2015 8:16	12/21/2015 8:16	30	30	66	0	0.0	0.0	0.00	9116.6
	12/21/2015 8:17	12/21/2015 8:17	34	34.5	66	4	8.3	4.2	0.48	9117.1
	12/21/2015 9:38	12/21/2015 9:38	33.5	33.5	76	9	18.5	1085.0	124.13	9241.2
	12/21/2015 11:55	12/21/2015 11:55	33.5	33.5	87	10.5	21.3	2724.5	311.68	9552.9
	12/21/2015 12:55	12/21/2015 12:55	34	32	88	12	24.5	1373.2	157.10	9710.0
	12/21/2015 14:02	12/21/2015 14:02	34	31.5	80	12	24.6	1645.2	188.21	9898.2
	12/21/2015 15:04	12/21/2015 15:04	34	31	80	12.5	25.7	1560.1	178.47	10076.7
	12/21/2015 15:55	12/21/2015 15:55	34	30.5	77	13	26.8	1337.6	153.03	10229.7
	12/21/2015 17:00	12/21/2015 17:00	34	31.5	74	14.5	30.0	1844.0	210.95	10440.6
12/21/2015 17:01	12/21/2015 17:01		22				30.0	3.43	10444.1	
SW-208 Event 11	1/11/2016 7:07	1/11/2016 7:07	30	30	36	0	0.0			10444.1
	1/11/2016 7:54	1/11/2016 7:54	30	29	37	3.5	7.2	168.9	19.32	10463.4
	1/11/2016 7:55	1/11/2016 7:55	34	33.5	37	8	17.2	12.2	1.39	10464.8
	1/11/2016 10:30	1/11/2016 10:30	32.5	32.5	66	11	22.5	3076.9	352.00	10816.8
	1/11/2016 12:00	1/11/2016 12:00	32.5	32.5	67	12	24.6	2120.1	242.54	11059.3
	1/11/2016 12:01	1/11/2016 12:01		22				24.6	2.81	11062.1
SW-208 Event 12	1/13/2016 7:53	1/13/2016 7:53	26	26	38	0	0.0			11062.1
	1/13/2016 8:21	1/13/2016 8:21	26	26	42	0	0	0.0	0.00	11062.1
	1/13/2016 8:22	1/13/2016 8:22	34	34	42	<2	0.0	0.0	0.00	11062.1
	1/13/2016 10:19	1/13/2016 10:19	34	34	72	6	12.4	726.6	83.12	11145.2
	1/13/2016 11:51	1/13/2016 11:51	34	33.5	73	7.5	15.5	1284.8	146.98	11292.2
	1/13/2016 12:50	1/13/2016 12:50	34	33.5	73	8	16.5	945.6	108.18	11400.4
	1/13/2016 12:51	1/13/2016 12:51		23				16.5	1.89	11402.3
SW-208 Event 13	1/18/2016 7:57	1/18/2016 7:57	26	27	42	0	0.0			11402.3
	1/18/2016 8:37	1/18/2016 8:37	27	26.5	54	0	0.0	0.0	0.00	11402.3
	1/18/2016 8:38	1/18/2016 8:38	34	33.5	54	<2	0	0.0	0.00	11402.3
	1/18/2016 10:22	1/18/2016 10:22	33	34	63	4	8.3	429.8	49.17	11451.5
	1/18/2016 11:42	1/18/2016 11:42	33	33	67	6	12.4	824.7	94.34	11545.8
	1/18/2016 13:35	1/18/2016 13:35	33	33	70	7	14.4	1509.5	172.69	11718.5
	1/18/2016 13:36	1/18/2016 13:36		24				14.4	1.64	11720.2

SW-208 Event 14	1/25/2016 7:34	1/25/2016 7:34	28	28	37	0	0.0			11720.2
	1/25/2016 8:12	1/25/2016 8:12	26	26.5	45	0	0.0	0.0	0.00	11720.2
	1/25/2016 8:13	1/25/2016 8:13	34	33.5	45	7.5	16.0	8.0	0.91	11721.1
	1/25/2016 9:35	1/25/2016 9:35	32.5	33	67	8.5	17.4	1367.6	156.45	11877.5
	1/25/2016 11:13	1/25/2016 11:13	32	33	77	10	20.2	1840.9	210.60	12088.1
	1/25/2016 12:43	1/25/2016 12:43	32	32.5	76	10.5	21.2	1861.3	212.93	12301.0
	1/25/2016 12:44	1/25/2016 12:44		22				21.2	2.42	12303.5
SW-208 Event 15	1/27/2016 7:09	1/27/2016 7:09	31	31	60	0	0.0			12303.5
	1/27/2016 7:53	1/27/2016 7:53	28	28	61	8	15.7	344.5	39.41	12342.9
	1/27/2016 7:54	1/27/2016 7:54	36	35	61	15.5	33.1	24.4	2.79	12345.7
	1/27/2016 9:31	1/27/2016 9:31	36	34	67	18	38.2	3459.3	395.74	12741.4
	1/27/2016 11:13	1/27/2016 11:13	35	33.5	80	19	39.4	3960.2	453.04	13194.5
	1/27/2016 12:31	1/27/2016 12:31	36	34	74	18	38.0	3018.2	345.28	13539.7
	1/27/2016 12:33	1/27/2016 12:33		22.5				75.9	8.68	13548.4
SW-208 Event 16	1/29/2016 7:11	1/29/2016 7:11	31.5	31.5	47	0	0.0			13548.4
	1/29/2016 7:36	1/29/2016 7:36	30	29	47	5.5	11.2	139.7	15.98	13564.4
	1/29/2016 7:37	1/29/2016 7:37	34	33.5	47	9.5	20.2	15.7	1.79	13566.2
	1/29/2016 9:11	1/29/2016 9:11	33	32.5	63	12.5	25.8	2161.8	247.32	13813.5
	1/29/2016 9:12	1/29/2016 9:12	36	35	63	14	29.8	27.8	3.18	13816.7
	1/29/2016 10:46	1/29/2016 10:46	36	34.5	71	16.5	34.9	3042.7	348.09	14164.8
	1/29/2016 11:47	1/29/2016 11:47	36	34	75	17	35.8	2156.6	246.72	14411.5
	1/29/2016 11:48	1/29/2016 11:48		22.5				35.8	4.10	14415.6
SW-208 Event 17	2/1/2016 7:40	2/1/2016 7:40	26	26	50	0	0.0			14415.6
	2/1/2016 8:02	2/1/2016 8:02	26	28	56	0	0.0	0.0	0.00	14415.6
	2/1/2016 8:03	2/1/2016 8:03	34	29	56	3	6.3	3.2	0.36	14416.0
	2/1/2016 9:53	2/1/2016 9:53	33	33.5	80	5	10.2	906.0	103.64	14519.6
	2/1/2016 9:54	2/1/2016 9:54	36	35.5	80	7	14.7	12.4	1.42	14521.0
	2/1/2016 11:33	2/1/2016 11:33	36	35.5	86	10	20.8	1758.2	201.14	14722.2
	2/1/2016 12:50	2/1/2016 12:50	36	35.5	86	11	22.9	1685.3	192.80	14915.0
	2/1/2016 14:19	2/1/2016 14:19	36	35	86	12	25.0	2133.5	244.07	15159.0
	2/1/2016 15:53	2/1/2016 15:53	36	35	80	13	27.3	2456.6	281.03	15440.1
	2/1/2016 17:15	2/1/2016 17:15	34	33	72	14	29.0	2305.6	263.76	15703.8
	2/1/2016 17:16	2/1/2016 17:16		25				29.0	3.32	15707.1

SW-208 Event 18	2/3/2016 7:07	2/3/2016 7:07	30	30	72	0	0			15707.1
	2/3/2016 7:31	2/3/2016 7:31	29	29.5	72	0	0.0	0.0	0.00	15707.1
	2/3/2016 7:32	2/3/2016 7:32	34	34	72	3.5	7.2	3.6	0.41	15707.6
	2/3/2016 9:42	2/3/2016 9:42	32.5	32.5	76	5	10.1	1130.5	129.33	15836.9
	2/3/2016 9:44	2/3/2016 9:44	36	35.5	76	8.5	17.9	28.0	3.21	15840.1
	2/3/2016 11:18	2/3/2016 11:18	36	35.5	79	10.5	22.0	1876.4	214.66	16054.8
	2/3/2016 12:44	2/3/2016 12:44	36	35	80	11.5	24.1	1984.2	226.99	16281.7
	2/3/2016 13:24	2/3/2016 13:24	36	35	80	12	25.2	985.3	112.72	16394.5
	2/3/2016 13:25	2/3/2016 13:25		24.5				25.2	2.88	16397.4
SW-208 Event 19	2/8/2016 7:27	2/8/2016 7:27	30	30	42	0	0.0			16397.4
	2/8/2016 8:16	2/8/2016 8:16	29	30	55	0	0.0	0.0	0.00	16397.4
	2/8/2016 8:17	2/8/2016 8:17	34	33.5	55	<2	0.0	0.0	0.00	16397.4
	2/8/2016 9:18	2/8/2016 9:18	33.5	33	65	4	8.3	253.0	28.94	16426.3
	2/8/2016 9:20	2/8/2016 9:20	34	34	65	4	8.3	16.6	1.90	16428.2
	2/8/2016 10:49	2/8/2016 10:49	33	33	72	5	10.2	826.8	94.58	16522.8
	2/8/2016 10:50	2/8/2016 10:50	34	34.5	72	6	12.4	11.3	1.30	16524.1
	2/8/2016 12:21	2/8/2016 12:21	33.5	34	72	7	14.4	1221.0	139.68	16663.8
	2/8/2016 13:18	2/8/2016 13:18	34	34.5	75	7.5	15.5	852.0	97.47	16761.2
	2/8/2016 14:39	2/8/2016 14:39	34	34	74	9	18.6	1380.0	157.87	16919.1
	2/8/2016 14:46	2/8/2016 14:46	34	34	74	9	18.6	130.2	14.89	16934.0
	2/8/2016 14:48	2/8/2016 14:48		25				37.2	4.25	16938.2
	SW-208 Event 20	2/11/2016 7:21	2/11/2016 7:21	28	30	34	0	0.0		
2/11/2016 7:52		2/11/2016 7:52	26	23.5	40	0	0.0	0.0	0.00	16938.2
2/11/2016 7:53		2/11/2016 7:53	32	32.5	40	3	6.3	3.1	0.36	16938.6
2/11/2016 9:22		2/11/2016 9:22	31	32	66	7.5	15.1	952.3	108.94	17047.5
2/11/2016 9:23		2/11/2016 9:23	35	36	66	11.5	24.2	19.7	2.25	17049.8
2/11/2016 12:03		2/11/2016 12:03	37	35.5	76	14.5	30.8	4401.3	503.50	17553.3
2/11/2016 13:04		2/11/2016 13:04	36.5	35	74	14.5	30.7	1877.3	214.76	17768.1
2/11/2016 13:05		2/11/2016 13:05		25				30.7	3.52	17771.6
SW-208 Event 21	2/15/2016 7:22	2/15/2016 7:22	31.5	32.5	48	0	0.0			17771.6
	2/15/2016 8:16	2/15/2016 8:16	30	30	55	6	12.1	326.5	37.35	17808.9
	2/15/2016 8:19	2/15/2016 8:19	36	36	55	11	23.6	53.6	6.13	17815.1
	2/15/2016 10:03	2/15/2016 10:03	37	36	67	14	30.0	2790.3	319.21	18134.3
	2/15/2016 11:34	2/15/2016 11:34	37	35.5	68	15.5	33.2	2876.8	329.11	18463.4
	2/15/2016 12:56	2/15/2016 12:56	36.5	35	72	16	34.0	2754.4	315.10	18778.5
	2/15/2016 14:00	2/15/2016 14:00	36.5	35	75	16.5	34.9	2205.0	252.26	19030.7
	2/15/2016 16:04	2/15/2016 16:04	36	34.5	71	17	36.0	4394.9	502.78	19533.5
	2/15/2016 16:05	2/15/2016 16:05		24				36.0	4.11	19537.6

SW-208 Event 22	2/17/2016 7:16	2/17/2016 7:16	34.5	34.5	53	0	0.0			19537.6
	2/17/2016 9:46	2/17/2016 9:46	32.5	32.5	74	6	12.2	915.1	104.68	19642.3
	2/17/2016 9:49	2/17/2016 9:49	37	36	74	10	21.3	50.2	5.75	19648.1
	2/17/2016 12:34	2/17/2016 12:34	37	36	77	11.5	24.4	3771.7	431.48	20079.5
	2/17/2016 14:14	2/17/2016 14:14	37	36	80	12.5	26.5	2544.4	291.08	20370.6
	2/17/2016 15:31	2/17/2016 15:31	37	35.5	80	13.5	28.6	2119.5	242.47	20613.1
	2/17/2016 16:30	2/17/2016 16:30	36	35	78	14	29.4	1710.8	195.71	20808.8
	2/17/2016 16:31	2/17/2016 16:31		23				29.4	3.36	20812.2
SW-208 Event 23	2/19/2016 7:11	2/19/2016 7:11	28	28	49	0	0.0			20812.2
	2/19/2016 7:33	2/19/2016 7:33	28	28	51	0	0.0	0.0	0.00	20812.2
	2/19/2016 7:34	2/19/2016 7:34	34	34	51	4	8.5	4.2	0.48	20812.6
	2/19/2016 8:56	2/19/2016 8:56	33	33.5	68	6	12.3	852.6	97.53	20910.2
	2/19/2016 9:34	2/19/2016 9:34	32	32	70	7	14.2	504.5	57.71	20967.9
	2/19/2016 9:36	2/19/2016 9:36		24				28.4	3.25	20971.1
SW-208 Event 24	2/22/2016 7:21	2/22/2016 7:21	32.5	34	63	0	0.0			20971.1
	2/22/2016 7:47	2/22/2016 7:47	32	33	64	0	0.0	0.0	0.00	20971.1
	2/22/2016 7:48	2/22/2016 7:48	33	34	64	<2	0.0	0.0	0.00	20971.1
	2/22/2016 9:31	2/22/2016 9:31	33	33.5	71	4	8.2	422.4	48.32	21019.5
	2/22/2016 9:33	2/22/2016 9:33	35	36	71	5	10.5	18.7	2.14	21021.6
	2/22/2016 11:34	2/22/2016 11:34	35	36	80	8	16.6	1637.8	187.36	21209.0
	2/22/2016 12:47	2/22/2016 12:47	35	36	83	9	18.6	1285.8	147.10	21356.1
	2/22/2016 15:21	2/22/2016 15:21	35	35.5	84	10.5	21.7	3105.7	355.29	21711.3
	2/22/2016 16:21	2/22/2016 16:21	35.5	35	78	11	23.0	1340.9	153.40	21864.7
	2/22/2016 16:53	2/22/2016 16:53	35.2	35	75	12	25.1	769.1	87.98	21952.7
	2/22/2016 16:54	2/22/2016 16:54		26				25.1	2.87	21955.6
	SW-208 Event 25	2/24/2016 7:29	2/24/2016 7:29	31.5	32	70	0	0		
2/24/2016 7:42		2/24/2016 7:42	31.5	32	70	0	0	0.0	0.00	21955.6
2/24/2016 7:43		2/24/2016 7:43	36.5	36	70	3	6.4	3.2	0.37	21956.0
2/24/2016 8:48		2/24/2016 8:48	36	36	72	7	14.8	688.1	78.72	22034.7
2/24/2016 9:59		2/24/2016 9:59	35.5	34.5	80	8	16.7	1117.4	127.84	22162.5
2/24/2016 11:40		2/24/2016 11:40	35	34.5	82	8	16.6	1679.6	192.14	22354.7
2/24/2016 12:59		2/24/2016 12:59	35	34.5	86	9	18.6	1388.1	158.80	22513.5
2/24/2016 14:14		2/24/2016 14:14	34	34	87	9.5	19.4	1423.3	162.83	22676.3
2/24/2016 14:57		2/24/2016 14:57	34	34	85	10	20.4	856.3	97.96	22774.3
2/24/2016 14:58		2/24/2016 14:58		24				20.4	2.34	22776.6
SW-208 Event 26	2/26/2016 7:11	2/26/2016 7:11	32	33	44	0	0			22776.6
	2/26/2016 7:20	2/26/2016 7:20	30.5	32	44	0	0	0.0	0.00	22776.6
	2/26/2016 7:21	2/26/2016 7:21	32.5	34	44	0	0	0.0	0.00	22776.6
	2/26/2016 8:18	2/26/2016 8:18	31.5	33	60	5	10.2	290.6	33.25	22809.8
	2/26/2016 8:19	2/26/2016 8:19	32.5	33.5	60	6	12.4	11.3	1.29	22811.1
	2/26/2016 9:14	2/26/2016 9:14	32	33	63	6	12.3	677.5	77.51	22888.6
	2/26/2016 9:15	2/26/2016 9:15	33.5	34.5	63	7.5	15.6	13.9	1.59	22890.2
	2/26/2016 10:28	2/26/2016 10:28	33.5	34	66	8	16.6	1173.6	134.26	23024.5
	2/26/2016 11:08	2/26/2016 11:08	33.5	34	67	8.5	17.6	683.2	78.16	23102.6
	2/26/2016 11:09	2/26/2016 11:09		25				17.6	2.01	23104.7

SW-208 Event 27	2/29/2016 7:44	2/29/2016 7:44	34	35	62	0	0			23104.7
	2/29/2016 8:24	2/29/2016 8:24	33	34	66	0	0	0.0	0.00	23104.7
	2/29/2016 8:25	2/29/2016 8:25	35	37	66	<2	0	0.0	0.00	23104.7
	2/29/2016 10:18	2/29/2016 10:18	35	36	77	6	12.5	705.6	80.72	23185.4
	2/29/2016 13:28	2/29/2016 13:28	35	35	84	8	16.5	2757.7	315.48	23500.9
	2/29/2016 14:52	2/29/2016 14:52	34.5	35	86	9	18.5	1470.7	168.25	23669.1
	2/29/2016 16:18	2/29/2016 16:18	34.5	35	87	9.5	19.5	1632.3	186.74	23855.8
	2/29/2016 17:06	2/29/2016 17:06	34	34	85	10	20.4	958.3	109.63	23965.5
	2/29/2016 17:07	2/29/2016 17:07		23				20.4	2.34	23967.8
SW-208 Event 28	3/2/2016 7:09	3/2/2016 7:09	32	33	67	0	0			23967.8
	3/2/2016 7:22	3/2/2016 7:22	32	33	67	0	0	0.0	0.00	23967.8
	3/2/2016 7:23	3/2/2016 7:23	36	37	67	0	0	0.0	0.00	23967.8
	3/2/2016 8:25	3/2/2016 8:25	36	37	68	5	10.6	328.8	37.61	24005.4
	3/2/2016 10:47	3/2/2016 10:47	36	36	80	8.5	17.8	2018.2	230.88	24236.3
	3/2/2016 13:00	3/2/2016 13:00	35	35	82	10	20.7	2562.5	293.15	24529.5
	3/2/2016 15:33	3/2/2016 15:33	35	35	85	11	22.7	3322.7	380.12	24909.6
	3/2/2016 15:35	3/2/2016 15:35		23				45.4	5.20	24914.8
SW-208 Event 29	3/7/2016 7:11	3/7/2016 7:11	31	32	53	0	0			24914.8
	3/7/2016 7:28	3/7/2016 7:28	30.5	31.5	56	0	0	0.0	0.00	24914.8
	3/7/2016 7:30	3/7/2016 7:30	35	36	56	0	0	0.0	0.00	24914.8
	3/7/2016 10:04	3/7/2016 10:04	34	35	78	6	12.3	950.8	108.77	25023.5
	3/7/2016 11:22	3/7/2016 11:22	34	35	82	8	16.4	1121.2	128.27	25151.8
	3/7/2016 12:30	3/7/2016 12:30	34	35	82	8	16.4	1115.3	127.59	25279.4
	3/7/2016 14:59	3/7/2016 14:59	34	34.5	84	10	20.5	2746.3	314.18	25593.6
	3/7/2016 16:33	3/7/2016 16:33	34	34.5	80	10	20.5	1927.2	220.47	25814.1
	3/7/2016 16:34	3/7/2016 16:34		23				20.5	2.35	25816.4
SW-208 Event 30	3/9/2016 7:18	3/9/2016 7:18	32	33	68	0	0			25816.4
	3/9/2016 7:19	3/9/2016 7:19	35	36	68	0	0	0.0	0.00	25816.4
	3/9/2016 8:11	3/9/2016 8:11	35	36	68	0	0	0.0	0.00	25816.4
	3/9/2016 9:38	3/9/2016 9:38	35	36	84	5	10.3	449.7	51.44	25867.8
	3/9/2016 11:30	3/9/2016 11:30	35	36	90	7	14.4	1384.7	158.41	26026.3
	3/9/2016 12:48	3/9/2016 12:48	35	36	90	7	14.4	1122.4	128.41	26154.7
	3/9/2016 14:16	3/9/2016 14:16	35	36	92	7	14.4	1265.1	144.73	26299.4
	3/9/2016 15:22	3/9/2016 15:22	34	35	89	9.5	19.3	1112.5	127.26	26426.7
	3/9/2016 15:23	3/9/2016 15:23		24.5				19.3	2.21	26428.9
SW-208 Event 31	3/14/2016 7:37	3/14/2016 7:37	33	33	70	0	0			26428.9
	3/14/2016 7:53	3/14/2016 7:53	36	37	70	0	0	0.0	0.00	26428.9
	3/14/2016 9:01	3/14/2016 9:01	35	36	76	4	8.3	283.3	32.41	26461.3
	3/14/2016 11:31	3/14/2016 11:31	33.5	34.5	88	6	12.2	1537.6	175.90	26637.2
	3/14/2016 12:53	3/14/2016 12:53	33	34	90	7	14.1	1076.7	123.17	26760.4
	3/14/2016 14:15	3/14/2016 14:15	32.5	33.5	91	8	16.0	1234.1	141.18	26901.5
	3/14/2016 16:44	3/14/2016 16:44	32	33	95	8.5	16.9	2447.9	280.04	27181.6
	3/14/2016 16:45	3/14/2016 16:45						16.9	1.93	27183.5
SW-208 Event 32	3/17/2016 7:47	3/17/2016 7:47	32	32	72	0	0			27183.5
	3/17/2016 9:41	3/17/2016 9:41	30	29	76	7	13.8	787.7	90.12	27273.6
	3/17/2016 9:42	3/17/2016 9:42	37	36	76	9	19.1	16.5	1.88	27275.5
	3/17/2016 11:50	3/17/2016 11:50	36	35	80	12	25.2	2834.4	324.26	27599.8
	3/17/2016 13:27	3/17/2016 13:27	35	34	80	13.5	28.0	2579.0	295.04	27894.8
	3/17/2016 15:53	3/17/2016 15:53	34	33	77	14	28.8	4150.6	474.83	28369.6
	3/17/2016 16:27	3/17/2016 16:27	33.5	32.5	75	15	30.8	1013.9	115.99	28485.6
	3/17/2016 16:28	3/17/2016 16:28		23				30.8	3.52	28489.2
SW-208 Event 33	3/18/2016 7:46	3/18/2016 7:46	36	35	67	5	10.6			28489.2
	3/18/2016 8:46	3/18/2016 8:46	36	32	68	15	31.8	1273.0	145.63	28634.8

	3/18/2016 9:56	3/18/2016 9:56	35	31	68	18	37.8	2436.4	278.73	28913.5
	3/18/2016 12:44	3/18/2016 12:44	34	29	75	21	43.3	6815.8	779.72	29693.2
	3/18/2016 12:45	3/18/2016 12:45		22				43.3	4.96	29698.2
<u>SW-208 Event 34</u>	3/21/2016 7:42	3/21/2016 7:42	32.5	32.5	49	0	0			29698.2
	3/21/2016 7:58	3/21/2016 7:58	30	30	49	4	8.1	64.9	7.42	29705.6
	3/21/2016 7:59	3/21/2016 7:59	36	35	49	7	15.1	11.6	1.33	29707.0
	3/21/2016 10:42	3/21/2016 10:42	36	35	70	14	29.6	3648.9	417.44	30124.4
	3/21/2016 12:50	3/21/2016 12:50	36	35	74	15	31.6	3921.1	448.58	30573.0
	3/21/2016 14:18	3/21/2016 14:18	36	35	77	15	31.5	2779.4	317.97	30890.9
	3/21/2016 16:15	3/21/2016 16:15	36	35	78	15	31.5	3688.2	421.93	31312.9
	3/21/2016 16:16	3/21/2016 16:16		22				31.5	3.60	31316.5
<u>SW-208 Event 35</u>	3/22/2016 7:44	3/22/2016 7:44	34	34	47	0	0			31316.5
	3/22/2016 10:01	3/22/2016 10:01	34	33	80	7	14.4	984.9	112.68	31429.1
	3/22/2016 13:45	3/22/2016 13:45	34	32	80	10	20.5	3911.0	447.42	31876.6
	3/22/2016 16:06	3/22/2016 16:06	33	30	82	13	26.4	3307.4	378.37	32254.9
	3/22/2016 16:07	3/22/2016 16:07		22				26.4	3.02	32257.9
Total CO ₂ Mass (lbs):										32257.9

Spurge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-209 Event 1	10/20/2015 9:14	10/20/2015	9:14	10	11	74	0	0.0				0
	10/20/2015 9:30	10/20/2015	9:30	9	10	74	0	0.0	0.0	0.00	0.0	
	10/20/2015 9:31	10/20/2015	9:31	18	20	74	0	0.0	0.0	0.00	0.0	
	10/20/2015 11:42	10/20/2015	11:42	20	20	86	0	0.0	0.0	0.00	0.0	
	10/20/2015 11:44	10/20/2015	11:44	23	22	86	0	0.0	0.0	0.00	0.0	
	10/20/2015 13:13	10/20/2015	13:13	22	22	84	0	0.0	0.0	0.00	0.0	
	10/20/2015 13:15	10/20/2015	13:15	26	26	84	<2	0.0	0.0	0.00	0.0	
	10/20/2015 14:40	10/20/2015	14:40	26	26	88	4	7.4	316.4	36.20	36.2	
	10/20/2015 14:42	10/20/2015	14:42	28	28	88	6	11.4	18.9	2.16	38.4	
	10/20/2015 15:07	10/20/2015	15:07	28	28	88	6	11.4	286.1	32.73	71.1	
	10/20/2015 15:09	10/20/2015	15:09	30	30	88	8	15.6	27.1	3.10	74.2	
	10/20/2015 15:30	10/20/2015	15:30	30	29	88	8	15.6	327.9	37.51	111.7	
	10/20/2015 15:32	10/20/2015	15:32	32	32	88	10	20.0	35.6	4.07	115.8	
	10/20/2015 17:20	10/20/2015	17:20	32	30.5	80	12	24.1	2380.7	272.35	388.1	
10/20/2015 17:21	10/20/2015	17:21		20				24.1	2.76	390.9		
SW-209 Event 2	10/28/2015 8:05	10/28/2015	8:05	28	29	75	0	0.0				390.9
	10/28/2015 8:16	10/28/2015	8:16	28	29	75	0	0.0	0.0	0.00	390.9	
	10/28/2015 8:17	10/28/2015	8:17	32	31.5	75	<2	0.0	0.0	0.00	390.9	
	10/28/2015 8:27	10/28/2015	8:27	32	31.5	76	3	6.1	30.3	3.46	394.3	
	10/28/2015 8:49	10/28/2015	8:49	32	31.5	76	5	10.1	177.6	20.32	414.7	
	10/28/2015 10:26	10/28/2015	10:26	31	30	80	9	17.9	1357.7	155.32	570.0	
	10/28/2015 11:58	10/28/2015	11:58	31	30	82	11	21.8	1827.9	209.11	779.1	
	10/28/2015 13:54	10/28/2015	13:54	30	28.5	96	12	23.2	2614.9	299.14	1078.2	
	10/28/2015 15:06	10/28/2015	15:06	30	28	92	13.5	26.3	1782.0	203.86	1282.1	
	10/28/2015 15:07	10/28/2015	15:07		20				26.3	3.00	1285.1	
SW-209 Event 3	10/30/2015 7:36	10/30/2015	7:36	26	26	66	0	0.0				1285.1
	10/30/2015 7:39	10/30/2015	7:39	33	32	66	3	6.2	9.3	1.06	1286.2	
	10/30/2015 7:50	10/30/2015	7:50	32	31	67	5.5	11.2	95.6	10.94	1297.1	
	10/30/2015 7:51	10/30/2015	7:51	34	33	67	7	14.6	12.9	1.47	1298.6	
	10/30/2015 9:08	10/30/2015	9:08	32	30.5	76	12	24.2	1493.2	170.82	1469.4	
	10/30/2015 9:12	10/30/2015	9:12	34	32	76	15	30.9	110.3	12.62	1482.0	
	10/30/2015 10:14	10/30/2015	10:14	34	32	81	15.5	31.8	1944.9	222.49	1704.5	
	10/30/2015 11:04	10/30/2015	11:04	34	32	87	17	34.7	1662.4	190.18	1894.7	
	10/30/2015 11:07	10/30/2015	11:07		21				104.1	11.90	1906.6	
SW-209 Event 4	11/2/2015 9:50	11/2/2015	9:50	28	29	90	0	0.0				1906.6
	11/2/2015 10:05	11/2/2015	10:05	28	28	92	<2	0.0	0.0	0.00	1906.6	
	11/2/2015 10:07	11/2/2015	10:07	33	32.5	92	6	12.1	12.1	1.38	1908.0	
	11/2/2015 10:15	11/2/2015	10:15	33	32.5	93	6	12.0	96.4	11.03	1919.0	
	11/2/2015 10:47	11/2/2015	10:47	33	31	93	10	20.1	514.0	58.80	1977.8	
	11/2/2015 10:48	11/2/2015	10:48	35	33	93	12	24.6	22.3	2.56	1980.4	
	11/2/2015 12:18	11/2/2015	12:18	34	30.5	96	16	32.4	2563.7	293.29	2273.6	
	11/2/2015 12:19	11/2/2015	12:19	36	32.5	96	18	37.2	34.8	3.98	2277.6	
	11/2/2015 13:45	11/2/2015	13:45	36	30.5	94	21	43.4	3466.4	396.56	2674.2	
	11/2/2015 13:46	11/2/2015	13:46		21				43.4	4.97	2679.2	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-209 Event 5	11/6/2015 7:09	11/6/2015	7:09	40	38	78	0	0.0			2679.2
	11/6/2015 7:36	11/6/2015	7:36	35	35	78	12	25.0	336.9	38.54	2717.7
	11/6/2015 8:35	11/6/2015	8:35	35	35	78	16	33.3	1717.6	196.49	2914.2
	11/6/2015 9:35	11/6/2015	9:35	35	35	80	16	33.2	1994.3	228.15	3142.3
	11/6/2015 10:32	11/6/2015	10:32	34	32	80	20	41.1	2117.2	242.21	3384.5
	11/6/2015 11:30	11/6/2015	11:30	34	32	80	20	41.1	2382.7	272.59	3657.1
	11/6/2015 11:32	11/6/2015	11:32		20				82.2	9.40	3666.5
SW-209 Event 6	11/9/2015 12:04	11/9/2015	12:04	28	29	74	0	0.0			3666.5
	11/9/2015 12:28	11/9/2015	12:28	28	27	74	4	7.7	92.8	10.61	3677.1
	11/9/2015 12:29	11/9/2015	12:29	32	31	74	9.5	19.2	13.5	1.54	3678.7
	11/9/2015 13:01	11/9/2015	13:01	32	30	80	11.5	23.1	677.4	77.50	3756.2
	11/9/2015 13:40	11/9/2015	13:40	31	28	78	16	31.9	1072.7	122.71	3878.9
	11/9/2015 16:55	11/9/2015	16:55	31	27	0.76	16	34.6	6478.8	741.18	4620.1
	11/9/2015 16:56	11/9/2015	16:56		21				34.6	3.95	4624.0
SW-209 Event 7	11/11/2015 8:06	11/11/2015	8:06	28	28	64	0	0.0			4624.0
	11/11/2015 8:22	11/11/2015	8:22	28	28	64	4	7.8	62.5	7.14	4631.2
	11/11/2015 8:23	11/11/2015	8:23		21				7.8	0.89	4632.1
SW-209 Event 8	11/21/2015 12:22	11/21/2015	12:22	27	27	82	0	0.0			4632.1
	11/21/2015 12:44	11/21/2015	12:44	26	27	81	0	0.0	0.0	0.00	4632.1
	11/21/2015 12:45	11/21/2015	12:45	30	30	81	8	15.7	7.9	0.90	4633.0
	11/21/2015 14:06	11/21/2015	14:06	31	30	82	7.5	14.9	1239.6	141.81	4774.8
	11/21/2015 14:07	11/21/2015	14:07	35	33	82	12	24.9	19.9	2.27	4777.0
	11/21/2015 14:56	11/21/2015	14:56	35	32.5	76	12.5	26.0	1247.0	142.66	4919.7
	11/21/2015 16:09	11/21/2015	16:09	34	31	74	15	31.0	2081.7	238.15	5157.8
	11/21/2015 17:02	11/21/2015	17:02	34	30	72	18	37.3	1808.7	206.91	5364.8
	11/21/2015 17:03	11/21/2015	17:03		25				37.3	4.26	5369.0
SW-209 Event 9	11/30/2015 12:09	11/30/2015	12:09	30	31	92	0	0.0			5369.0
	11/30/2015 12:46	11/30/2015	12:46	30	29.5	92	6	11.7	215.8	24.69	5393.7
	11/30/2015 12:47	11/30/2015	12:47	32	31	92	8.5	16.9	14.3	1.63	5395.3
	11/30/2015 14:21	11/30/2015	14:21	32	30	92	11	21.9	1822.1	208.45	5603.8
	11/30/2015 14:23	11/30/2015	14:23	36	33	92	16	33.2	55.0	6.30	5610.1
	11/30/2015 16:13	11/30/2015	16:13	36	32	81	18	37.7	3897.5	445.87	6056.0
	11/30/2015 17:04	11/30/2015	17:04	35	30	76	20	41.7	2023.9	231.53	6287.5
	11/30/2015 17:05	11/30/2015	17:05		22.5				41.7	4.77	6292.3
SW-209 Event 10	12/7/2015 7:42	12/7/2015	7:42	38	38	60	2	4.4			6292.3
	12/7/2015 8:33	12/7/2015	8:33	36	36	60	13	27.8	820.0	93.81	6386.1
	12/7/2015 9:48	12/7/2015	9:48	35	35	70	16	33.5	2299.7	263.08	6649.2
	12/7/2015 10:51	12/7/2015	10:51	34	34	70	18	37.3	2232.2	255.37	6904.5
	12/7/2015 12:13	12/7/2015	12:13	32	32	74	22	44.5	3355.0	383.81	7288.3
	12/7/2015 12:46	12/7/2015	12:46	32	32	74	22	44.5	1468.4	167.98	7456.3
	12/7/2015 14:22	12/7/2015	14:22	32	32	78	22	44.3	4263.3	487.72	7944.0
	12/7/2015 14:53	12/7/2015	14:53		22				1374.0	157.19	8101.2
SW-209 Event 11	12/14/2015 7:37	12/14/2015	7:37	26	25.5	73	0	0.0			8101.2
	12/14/2015 8:28	12/14/2015	8:28	24.5	25	75	4	7.4	188.6	21.58	8122.8
	12/14/2015 8:29	12/14/2015	8:29	31	31	75	11.5	23.0	15.2	1.74	8124.5
	12/14/2015 10:36	12/14/2015	10:36	30	29	78	15	29.6	3336.3	381.67	8506.2
	12/14/2015 10:37	12/14/2015	10:37	34.5	32	78	21	43.4	36.5	4.18	8510.4
	12/14/2015 12:24	12/14/2015	12:24	31.5	29	81	20.5	41.0	4515.5	516.58	9027.0
	12/14/2015 12:25	12/14/2015	12:25	32	29.5	81	21.5	43.2	42.1	4.81	9031.8
	12/14/2015 14:02	12/14/2015	14:02	31.5	28.5	80	23	46.0	4325.7	494.86	9526.6

LCP Chemicals Site, Brunswick, GA
SW-209

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	12/14/2015 14:03	12/14/2015	14:03		22					46.0	5.26	9531.9

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-209 Event 12	12/19/2015 11:14	12/19/2015	11:14	30	30.5	73	0	0.0				9531.9
	12/19/2015 11:44	12/19/2015	11:44	28.5	29	73	6	11.7	175.1	20.04	9551.9	
	12/19/2015 11:45	12/19/2015	11:45	33.5	33.5	73	11	22.6	17.2	1.96	9553.9	
	12/19/2015 12:47	12/19/2015	12:47	36	33	70	14	29.6	1620.3	185.36	9739.3	
	12/19/2015 13:34	12/19/2015	13:34	36	31.5	74	16	33.7	1489.3	170.38	9909.6	
	12/19/2015 14:43	12/19/2015	14:43	34	30	74	18	37.2	2447.0	279.94	10189.6	
	12/19/2015 15:40	12/19/2015	15:40	34	29.5	72	18.5	38.3	2151.3	246.11	10435.7	
	12/19/2015 17:03	12/19/2015	17:03	35	30	66	20	42.1	3335.5	381.58	10817.3	
	12/19/2015 17:04	12/19/2015	17:04		22				42.1	4.81	10822.1	
SW-209 Event 13	12/22/2015 7:54	12/22/2015	7:54	30	30	72	0	0.0				10822.1
	12/22/2015 8:18	12/22/2015	8:18	29	29	72	6	11.8	141.1	16.14	10838.2	
	12/22/2015 8:19	12/22/2015	8:19	33.5	33.5	72	11	22.7	17.2	1.97	10840.2	
	12/22/2015 10:12	12/22/2015	10:12	35	32	76	17	35.4	3280.9	375.34	11215.5	
	12/22/2015 11:05	12/22/2015	11:05	34	30.5	77	18	37.1	1921.2	219.79	11435.3	
	12/22/2015 11:06	12/22/2015	11:06		25.5				37.1	4.24	11439.6	
SW-209 Event 14	1/5/2016 7:47	1/5/2016	7:47	28	29.5	42	0	0.0				11439.6
	1/5/2016 8:13	1/5/2016	8:13	28.5	29	44	4	8.0	104.2	11.92	11451.5	
	1/5/2016 8:14	1/5/2016	8:14	33	33.5	44	9	19.0	13.5	1.54	11453.0	
	1/5/2016 9:48	1/5/2016	9:48	33	33	57	12	24.9	2063.7	236.09	11689.1	
	1/5/2016 11:40	1/5/2016	11:40	32	31	63	16	32.7	3228.9	369.39	12058.5	
	1/5/2016 13:05	1/5/2016	13:05	32	29.5	63	18	36.8	2954.2	337.97	12396.5	
	1/5/2016 14:05	1/5/2016	14:05	31	29	58	19	38.6	2262.4	258.81	12655.3	
	1/5/2016 14:06	1/5/2016	14:06		22				38.6	4.42	12659.7	
	SW-209 Event 15	1/15/2016 7:18	1/15/2016	7:18	27	27	66	0	0.0			
1/15/2016 7:32		1/15/2016	7:32	26	26	66	3	5.7	39.9	4.57	12664.3	
1/15/2016 7:33		1/15/2016	7:33	33	32.5	66	8.5	17.5	11.6	1.33	12665.6	
1/15/2016 8:39		1/15/2016	8:39	33	32	66	11.5	23.7	1359.9	155.57	12821.2	
1/15/2016 10:25		1/15/2016	10:25	33	30	67	17	35.0	3110.5	355.84	13177.0	
1/15/2016 11:30		1/15/2016	11:30	33	29	67	16	32.9	2207.7	252.56	13429.6	
1/15/2016 11:31		1/15/2016	11:31		22.5				32.9	3.77	13433.3	
SW-209 Event 16	1/20/2016 7:34	1/20/2016	7:34	25	25	34	0	0.0				13433.3
	1/20/2016 8:03	1/20/2016	8:03	24	24.5	37	<2	0.0	0.0	0.00	13433.3	
	1/20/2016 8:04	1/20/2016	8:04	33	32.5	37	9	19.1	9.5	1.09	13434.4	
	1/20/2016 9:27	1/20/2016	9:27	33	32.5	66	12	24.7	1818.8	208.07	13642.5	
	1/20/2016 11:15	1/20/2016	11:15	32	31	73	16.5	33.4	3139.0	359.10	14001.6	
	1/20/2016 12:18	1/20/2016	12:18	31.5	30	72	18	36.3	2195.0	251.10	14252.7	
	1/20/2016 14:27	1/20/2016	14:27	31	29	75	20	40.0	4918.0	562.62	14815.3	
	1/20/2016 14:29	1/20/2016	14:29		22				79.9	9.15	14824.5	
SW-209 Event 17	1/26/2016 7:33	1/26/2016	7:33	27	27	54	0	0.0				14824.5
	1/26/2016 9:18	1/26/2016	9:18	26	25	61	4.5	8.6	451.3	51.63	14876.1	
	1/26/2016 9:19	1/26/2016	9:19	33	33.5	61	16	33.1	20.9	2.39	14878.5	
	1/26/2016 11:42	1/26/2016	11:42	33.5	31.5	77	18.5	37.9	5079.6	581.10	15459.6	
	1/26/2016 13:45	1/26/2016	13:45	32.5	30	77	20.5	41.6	4887.8	559.17	16018.7	
	1/26/2016 14:57	1/26/2016	14:57	32.5	30	77	21.5	43.6	3065.7	350.72	16369.5	
	1/26/2016 14:58	1/26/2016	14:58		22.5				43.6	4.99	16374.5	
SW-209 Event 18	1/28/2016 7:02	1/28/2016	7:02	28	28	60	0	0.0				16374.5
	1/28/2016 7:32	1/28/2016	7:32	28	28	60	8.5	16.7	249.8	28.58	16403.0	
	1/28/2016 7:33	1/28/2016	7:33	32	30	60	12	24.6	20.6	2.36	16405.4	
	1/28/2016 9:25	1/28/2016	9:25	30	30	63	14	28.0	2945.6	336.98	16742.4	
	1/28/2016 9:27	1/28/2016	9:27	34	33	63	18	37.6	65.6	7.50	16749.9	

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	1/28/2016 11:22	1/28/2016	11:22	33	30.5	65	21	43.3		4652.0	532.19	17282.1
	1/28/2016 11:55	1/28/2016	11:55	33	30.5	65	21	43.3		1429.3	163.51	17445.6
	1/28/2016 11:57	1/28/2016	11:57		22					86.6	9.91	17455.5
<u>SW-209 Event 19</u>	2/2/2016 8:08	2/2/2016	8:08	27	28	64	0	0.0				17455.5
	2/2/2016 8:32	2/2/2016	8:32	25.5	26	67	5.5	10.4		124.6	14.25	17469.7
	2/2/2016 8:33	2/2/2016	8:33	34	33.5	67	11.5	23.9		17.2	1.96	17471.7
	2/2/2016 10:27	2/2/2016	10:27	33	31	84	18	36.4		3441.1	393.66	17865.4
	2/2/2016 10:29	2/2/2016	10:29	35	33	84	20.5	42.4		78.8	9.02	17874.4
	2/2/2016 12:36	2/2/2016	12:36	36	33	80	23	48.2		5753.2	658.17	18532.5
	2/2/2016 14:02	2/2/2016	14:02	36	32	80	25	52.4		4327.1	495.02	19027.6
	2/2/2016 14:03	2/2/2016	14:03		23					52.4	6.00	19033.6
<u>SW-209 Event 20</u>	2/4/2016 7:14	2/4/2016	7:14	30	30	70	0	0.0				19033.6
	2/4/2016 7:40	2/4/2016	7:40	29	29	70	8.5	16.7		216.9	24.82	19058.4
	2/4/2016 7:41	2/4/2016	7:41	32	30	70	11.5	23.3		20.0	2.29	19060.7
	2/4/2016 10:58	2/4/2016	10:58	29	29	64	16	31.6		5412.2	619.15	19679.8
	2/4/2016 10:59	2/4/2016	10:59	34	34	64	19	39.6		35.6	4.07	19683.9
	2/4/2016 14:01	2/4/2016	14:01	34.5	30.5	64	24.5	51.4		8283.3	947.61	20631.5
	2/4/2016 14:02	2/4/2016	14:02		22.5					51.4	5.88	20637.4
<u>SW-209 Event 21</u>	2/9/2016 7:30	2/9/2016	7:30	31	31.5	45	0	0.0				20637.4
	2/9/2016 8:04	2/9/2016	8:04	28	29	50	7.5	14.8		252.3	28.87	20666.3
	2/9/2016 8:05	2/9/2016	8:05	30	30.5	50	11	22.3		18.6	2.12	20668.4
	2/9/2016 9:37	2/9/2016	9:37	30	30	61	11.5	23.0		2084.9	238.51	20906.9
	2/9/2016 9:38	2/9/2016	9:38	35	34.5	61	16	33.8		28.4	3.25	20910.1
	2/9/2016 11:54	2/9/2016	11:54	35	32	64	23	48.5		5597.5	640.35	21550.5
	2/9/2016 13:53	2/9/2016	13:53	35	31.5	66	24	50.5		5889.3	673.73	22224.2
	2/9/2016 13:56	2/9/2016	13:56		23					151.5	17.33	22241.6
<u>SW-209 Event 22</u>	2/12/2016 7:19	2/12/2016	7:19	28	29.5	60	<2	0.0				22241.6
	2/12/2016 7:51	2/12/2016	7:51	28	29	62	8	15.6		250.3	28.64	22270.2
	2/12/2016 7:52	2/12/2016	7:52	31	32	62	13	26.3		21.0	2.40	22272.6
	2/12/2016 8:43	2/12/2016	8:43	31	31	66	13.5	27.2		1365.0	156.16	22428.8
	2/12/2016 8:44	2/12/2016	8:44	33	32.5	66	15	30.9		29.1	3.32	22432.1
	2/12/2016 9:43	2/12/2016	9:43	33	32	72	16.5	33.8		1908.8	218.37	22650.5
	2/12/2016 10:56	2/12/2016	10:56	32	30	73	20	40.5		2711.5	310.20	22960.6
	2/12/2016 10:57	2/12/2016	10:57	34	32	73	23.5	48.6		44.5	5.10	22965.7
	2/12/2016 11:55	2/12/2016	11:55	34	31	78	23	47.3		2782.1	318.27	23284.0
	2/12/2016 11:56	2/12/2016	11:56		24					47.3	5.42	23289.4
<u>SW-209 Event 23</u>	2/16/2016 7:11	2/16/2016	7:11	30.5	31	61	0	0.0				23289.4
	2/16/2016 7:39	2/16/2016	7:39	29	29.5	61	7	13.9		194.1	22.21	23311.6
	2/16/2016 7:40	2/16/2016	7:40	34	34	61	11	23.0		18.4	2.11	23313.7
	2/16/2016 9:30	2/16/2016	9:30	35	33	71	18	37.7		3338.7	381.95	23695.7
	2/16/2016 10:35	2/16/2016	10:35	34	32	74	20	41.3		2567.7	293.74	23989.4
	2/16/2016 12:55	2/16/2016	12:55	34	31	78	22	45.3		6061.8	693.47	24682.9
	2/16/2016 13:22	2/16/2016	13:22	33.5	30.5	80	22	45.0		1218.1	139.35	24822.3
	2/16/2016 13:25	2/16/2016	13:25		22					134.9	15.43	24837.7
<u>SW-209 Event 24</u>	2/23/2016 7:28	2/23/2016	7:28	25	26.5	68	0	0.0				24837.7
	2/23/2016 8:00	2/23/2016	8:00	25	25	68	4	7.5		119.9	13.72	24851.4
	2/23/2016 8:02	2/23/2016	8:02	35	34.5	68	12	25.2		32.7	3.74	24855.1
	2/23/2016 9:15	2/23/2016	9:15	35	34	70	15	31.4		2067.1	236.47	25091.6
	2/23/2016 11:11	2/23/2016	11:11	35	32	81	20	41.5		4228.3	483.72	25575.3
	2/23/2016 13:46	2/23/2016	13:46	34	30	87	22	44.9		6692.7	765.64	26341.0

LCP Chemicals Site, Brunswick, GA
SW-209

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)		Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
	2/23/2016 13:47	2/23/2016	13:47		22					44.9	5.14	26346.1

Sparge Event	Date + Time	Date	Time	P at Panel (psig)	P at Well (psig)	Temp (°F)	Rotameter Reading (scfm)	Flow (scfm)	Volume of CO ₂ (scf)	Mass of CO ₂ (lb)	Cum. Mass (lb)
SW-209 Event 25	2/25/2016 7:25	2/25/2016	7:25	29	30	52	0	0.0			26346.1
	2/25/2016 7:32	2/25/2016	7:32	29	28	53	5.5	11.0	38.4	4.40	26350.5
	2/25/2016 7:33	2/25/2016	7:33	33	33	53	10.5	21.9	16.4	1.88	26352.4
	2/25/2016 8:52	2/25/2016	8:52	33	32.5	62	13	26.9	1928.0	220.56	26573.0
	2/25/2016 10:15	2/25/2016	10:15	33	32	66	15.5	31.9	2441.4	279.30	26852.3
	2/25/2016 11:44	2/25/2016	11:44	33	32	70	18.5	38.0	3110.8	355.88	27208.1
	2/25/2016 12:35	2/25/2016	12:35	33	31.5	70	20	41.0	2014.9	230.51	27438.6
	2/25/2016 14:16	2/25/2016	14:16	33	30	73	22	45.0	4346.4	497.23	27935.9
	2/25/2016 14:53	2/25/2016	14:53	33	30	73	22	45.0	1665.7	190.56	28126.4
	2/25/2016 14:54	2/25/2016	14:54		21				45.0	5.15	28131.6
SW-209 Event 26	3/1/2016 7:29	3/1/2016	7:29	33	34	58	0	0.0			28131.6
	3/1/2016 7:42	3/1/2016	7:42	30	31	60	7	14.0	91.2	10.44	28142.0
	3/1/2016 7:43	3/1/2016	7:43	35	35	60	12	25.4	19.7	2.26	28144.3
	3/1/2016 9:52	3/1/2016	9:52	35	34	80	16	33.2	3780.0	432.43	28576.7
	3/1/2016 12:42	3/1/2016	12:42	34	32	85	20	40.9	6297.8	720.47	29297.2
	3/1/2016 14:17	3/1/2016	14:17	33	30	88	22	44.4	4050.0	463.32	29760.5
	3/1/2016 14:18	3/1/2016	14:18		22				44.4	5.08	29765.6
	3/16/2016 7:47	3/16/2016	7:47	32	33	72	0	0.0			29765.6
SW-209 Event 27	3/16/2016 9:18	3/16/2016	9:18	29	30	81	8	15.5	707.1	80.89	29846.5
	3/16/2016 9:19	3/16/2016	9:19	35	35	81	12	24.9	20.2	2.31	29848.8
	3/16/2016 11:59	3/16/2016	11:59	36	34.5	90	18	37.4	4980.8	569.80	30418.6
	3/16/2016 14:42	3/16/2016	14:42	35	32	95	22	45.0	6715.1	768.21	31186.8
	3/16/2016 15:45	3/16/2016	15:45	35	32	95	23	47.1	2900.4	331.80	31518.6
	3/16/2016 15:46	3/16/2016	15:46		23				47.1	5.38	31524.0
	3/23/2016 7:33	3/23/2016	7:33	31	32	52	0	0.0			31524.0
SW-209 Event 28	3/23/2016 8:42	3/23/2016	8:42	29	30	70	6	11.8	406.4	46.49	31570.5
	3/23/2016 8:43	3/23/2016	8:43	34	34	70	11	22.8	17.3	1.98	31572.4
	3/23/2016 10:24	3/23/2016	10:24	34	33	80	14	28.8	2604.4	297.94	31870.4
	3/23/2016 12:08	3/23/2016	12:08	34	32	88	16.5	33.6	3244.4	371.16	32241.5
	3/23/2016 13:10	3/23/2016	13:10	33.5	31.5	88	18	36.5	2174.2	248.73	32490.3
	3/23/2016 13:11	3/23/2016	13:11		22				36.5	4.18	32494.5
	Total CO ₂ Mass (lbs):										

Appendix F:

Air Quality Data

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging

AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																				
				North				South				East				West				Well				
				Units																				
Date	Time	Sparge Well	Wind direction	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	
22-Oct-15	8:45	206	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	10:00	206	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	10:15	204	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	11:50	204	SW	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
23-Oct-15	10:50	194	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	11:00	186	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
26-Oct-15	12:55	152	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	14:45	152	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
27-Oct-15	Air monitoring not conducted due to rain.																							
28-Oct-15	Air monitoring not conducted due to rain.																							
29-Oct-15	12:18	201	NE	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	14:45	201	NE	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	12:27	204	NE	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	14:55	204	NE	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
30-Oct-15	9:15	209	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	10:15	209	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	9:20	205	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	10:20	205	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
2-Nov-15	14:15	207	N	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	15:15	207	N	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
3-Nov-15	8:25	208	N	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	10:42	208	N	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0

Note: (1) Measurement not collected; meter not configured for carbon dioxide.

Action Levels: Carbon Dioxide (CO₂): 2,500 ppmv; Oxygen (O₂): < 19.5% and > 22.0 %; Hydrogen sulfide (H₂S): 10 ppmv; Mercury (Hg): 0.05 mg/m³

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging
 AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																				
				North				South				East				West				Well				
				Units																				
Date	Time	Sparge Well	Wind direction	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	
9-Nov-15	No air monitoring today due to rain.																							
10-Nov-15	9:15	206	E	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	10:40	206	E	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	9:25	208	E	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	10:50	208	E	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
12-Nov-15	13:15	204	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	14:10	204	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
13-Nov-15	8:10	151	S	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	3.8	
	Wellhead measurements for SW-151 were conducted at the well base to evaluate potential short circuiting.																							
16-Nov-15	11:45	180	E	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	14:45	180	E	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
17-Nov-15	11:00	204	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	13:00	204	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
18-Nov-15	10:00	154	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	12:30	154	W	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
19-Nov-15	Air monitoring not conducted due to rain.																							
20-Nov-15	10:30	167	SW	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
	12:00	167	SW	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.000	20.9	(1)	0.0	0.0
1-Dec-15	10:30	193	S	0.000	20.9	500	0.0	0.000	20.9	520	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	520	0.0	0.0
2-Dec-15	11:15	205	N	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.0
3-Dec-15	9:30	198	N	0.001	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.0
	12:10	198	N	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.0

Note: (1) Measurement not collected; meter not configured for carbon dioxide.

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging
 AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																			
				North				South				East				West				Well			
Units				mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv
Date	Time	Sparge Well	Wind direction	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S
4-Dec-15	8:45	208	S	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	440	0.0
	10:30	208	S	0.000	20.9	460	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	460	0.0
7-Dec-15	10:15	209	S	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	460	0.0	0.000	20.9	490	0.0	0.000	20.9	460	0.0
	12:20	209	S	0.000	20.9	490	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
8-Dec-15	9:45	151	S	0.000	20.9	630	0.0	0.000	20.9	620	0.0	0.000	20.9	630	0.0	0.000	20.9	620	0.0	0.000	20.9	630	0.0
	12:00	151	S	0.000	20.9	630	0.0	0.000	20.9	630	0.0	0.000	20.9	630	0.0	0.000	20.9	630	0.0	0.000	20.9	630	0.0
9-Dec-15	8:45	196	S	0.000	20.9	530	0.0	0.000	20.9	530	0.0	0.000	20.9	520	0.0	0.000	20.9	530	0.0	0.000	20.9	550	0.0
	10:15	196	S	0.000	20.9	550	0.0	0.000	20.9	530	0.0	0.000	20.9	530	0.0	0.000	20.9	550	0.0	0.000	20.9	530	0.0
10-Dec-15	11:00	148	E	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
	13:30	148	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
11-Dec-15	8:30	177	E	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0
	9:30	177	E	0.000	20.9	560	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0
14-Dec-15	11:00	86	N	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
	11:15	157	N	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	500	0.0	0.000	20.9	490	0.0
	11:30	185	N	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
15-Dec-15	10:45	197	E	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
	11:00	159	E	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	500	0.0
	11:15	156	E	0.000	20.9	490	0.0	0.000	20.9	500	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
16-Dec-15	10:15	149	W	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0
	10:30	181	W	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
	10:45	203	W	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging
 AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																			
				North				South				East				West				Well			
				Units																			
Date	Time	Sparge Well	Wind direction	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv
				Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S
17-Dec-15	8:45	174	N	0.001	20.9	480	0.0	0.004	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	480	0.0	0.000	20.9	490	0.0
	9:00	187	N	0.000	20.9	500	0.0	0.000	20.9	480	0.0	0.000	20.9	480	0.0	0.000	20.9	480	0.0	0.001	20.9	490	0.0
	15:15	202	N	0.000	20.9	480	0.0	0.000	20.9	490	0.0	0.000	20.9	480	0.0	0.000	20.9	480	0.0	0.000	20.9	480	0.0
18-Dec-15	10:45	200	E	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0
19-Dec-15	13:45	164	W	0.000	20.9	460	0.0	0.000	20.9	480	0.0	0.000	20.9	480	0.0	0.000	20.9	480	0.0	0.000	20.9	480	0.0
21-Dec-15	10:15	139	W	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0
	10:30	167	W	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0
	10:45	201	W	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0
22-Dec-15	8:45	150	N	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0
5-Jan-16	10:00	196	S	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	460	0.0	0.000	20.9	440	0.0
	10:15	184	S	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0
	10:30	176	S	0.000	20.9	440	0.0	0.000	20.9	460	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0
6-Jan-16	13:00	166	S	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0	0.000	20.9	440	0.0
	13:15	192	S	0.000	20.9	440	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	440	0.0	0.000	20.9	460	0.0
7-Jan-16	12:00	132	S	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0
	12:15	191	S	0.000	20.9	460	0.0	0.000	20.9	440	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	440	0.0
	13:00	165	S	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0	0.000	20.9	460	0.0
8-Jan-16	Air monitoring not conducted due to rain.																						
11-Jan-16	9:15	144	S	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
	9:30	155	S	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
	9:45	179	S	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging
 AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																			
				North				South				East				West				Well			
				Units																			
Date	Time	Sparge Well	Wind direction	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv
				Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S
12-Jan-16	9:00	162	W	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	490	0.0
	9:15	168	W	0.000	20.9	480	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
	9:30	182	W	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0	0.000	20.9	480	0.0
13-Jan-16	10:30	163	E	0.000	20.9	490	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	520	0.0
	10:45	170	E	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	520	0.0	0.000	20.9	490	0.0	0.000	20.9	520	0.0
	11:00	160	E	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	490	0.0	0.000	20.9	530	0.0
14-Jan-16	10:45	126	S	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	500	0.0	0.000	20.9	530	0.0
	11:00	169	S	0.000	20.9	500	0.0	0.000	20.9	500	0.0	0.000	20.9	520	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
	11:15	175	S	0.000	20.9	490	0.0	0.000	20.9	500	0.0	0.000	20.9	520	0.0	0.000	20.9	490	0.0	0.000	20.9	490	0.0
15-Jan-16	Air monitoring not conducted due to rain.																						
18-Jan-16	9:45	166	E	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0
	10:00	172	E	0.000	20.9	520	0.0	0.000	20.9	500	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0
	10:15	185	E	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0	0.000	20.9	520	0.0
19-Jan-16	13:15	161	E	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0
	13:30	175	E	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	530	0.0	0.000	20.9	550	0.0
	13:45	189	E	0.000	20.9	530	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	530	0.0
20-Jan-16	10:30	155	SW	0.000	20.9	530	0.0	0.000	20.9	550	0.0	0.000	20.9	530	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0
	10:45	179	SW	0.000	20.9	530	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	530	0.0	0.000	20.9	530	0.0
	11:00	195	SW	0.000	20.9	550	0.0	0.000	20.9	550	0.0	0.000	20.9	530	0.0	0.000	20.9	550	0.0	0.000	20.9	550	0.0
21-Jan-16	8:00	128	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0
	8:15	150	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging
 AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																			
				North				South				East				West				Well			
				Units																			
Date	Time	Sparge Well	Wind direction	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv
				Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S
25-Jan-16	10:00	145	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	580	0.0
	10:15	147	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0
	13:45	201	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0
26-Jan-16	10:45	146	NE	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	580	0.0
	11:00	112	NE	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	580	0.0
	13:45	199	NE	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	580	0.0
27-Jan-16	9:45	33	SW	0.000	20.9	780	0.0	0.000	20.9	800	0.0	0.000	20.9	800	0.0	0.000	20.9	750	0.0	0.000	20.9	750	0.0
	10:00	126	SW	0.000	20.9	750	0.0	0.000	20.9	750	0.0	0.000	20.9	780	0.0	0.000	20.9	750	0.0	0.000	20.9	780	0.0
	10:15	129	SW	0.000	20.9	780	0.0	0.000	20.9	750	0.0	0.000	20.9	780	0.0	0.000	20.9	750	0.0	0.000	20.9	750	0.0
28-Jan-16	14:15	109	SW	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0
	14:30	171	SW	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0
29-Jan-16	8:30	137	E	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
1-Feb-16	10:00	146	NE	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0
	10:15	160	NE	0.000	20.9	650	0.0	0.000	20.9	620	0.0	0.000	20.9	650	0.0	0.000	20.9	650	0.0	0.000	20.9	650	0.0
	10:30	193	NE	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0
2-Feb-16	11:00	125	E	0.000	20.9	620	0.0	0.000	20.9	630	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0
	11:15	130	E	0.000	20.9	620	0.0	0.000	20.9	660	0.0	0.000	20.9	620	0.0	0.000	20.9	660	0.0	0.000	20.9	660	0.0
	11:30	136	E	0.000	20.9	660	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	620	0.0
3-Feb-16	10:00	153	N	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0
	10:15	162	N	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0
	10:30	168	N	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging

AMBIENT AIR MONITORING DATA

Date	Time	Sparge Well	Wind direction	Sample Location Relative to Well Head																			
				North				South				East				West				Well			
				mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv
4-Feb-16	Air monitoring not conducted due to rain.																						
8-Feb-16	10:00	153	NE	0.000	20.9	620	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
	10:15	159	NE	0.000	20.9	660	0.0	0.000	20.9	600	0.0	0.000	20.9	620	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
	10:30	161	NE	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
9-Feb-16	8:30	141	E	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
	8:45	169	E	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	580	0.0
	9:00	196	E	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	600	0.0
10-Feb-16	8:30	161	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0
	8:45	182	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0
	9:00	197	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0
11-Feb-16	8:30	112	E	0.000	20.9	600	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	600	0.0
	8:45	125	E	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	580	0.0
	9:00	138	E	0.000	20.9	620	0.0	0.000	20.9	580	0.0	0.000	20.9	620	0.0	0.000	20.9	580	0.0	0.000	20.9	620	0.0
12-Feb-16	8:30	153	N	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
15-Feb-16	9:00	137	S	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
	9:15	171	S	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
16-Feb-16	8:30	131	E	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
	13:15	135	E	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
17-Feb-16	11:00	178	E	0.000	20.9	600	0.0	0.000	20.9	630	0.0	0.000	20.9	580	0.0	0.000	20.9	630	0.0	0.000	20.9	600	0.0
	11:15	187	E	0.000	20.9	580	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	580	0.0	0.000	20.9	630	0.0
18-Feb-16	8:45	140	S	0.000	20.9	690	0.0	0.000	20.9	690	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0
	9:00	142	S	0.000	20.9	680	0.0	0.000	20.9	680	0.0	0.000	20.9	680	0.0	0.000	20.9	670	0.0	0.000	20.9	690	0.0

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging
 AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																			
				North				South				East				West				Well			
Units				mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv
Date	Time	Sparge Well	Wind direction	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S
19-Feb-16	8:30	133	SE	0.000	20.9	640	0.0	0.000	20.9	650	0.0	0.000	20.9	650	0.0	0.000	20.9	640	0.0	0.000	20.9	640	0.0
22-Feb-16	8:30	127	N	0.000	20.9	670	0.0	0.000	20.9	670	0.0	0.000	20.9	670	0.0	0.000	20.9	670	0.0	0.000	20.9	670	0.0
23-Feb-16	8:15	134	N	0.000	20.9	640	0.0	0.000	20.9	640	0.0	0.000	20.9	640	0.0	0.000	20.9	640	0.0	0.000	20.9	640	0.0
24-Feb-16	9:15	130	N	0.000	20.9	670	0.0	0.000	20.9	670	0.0	0.000	20.9	670	0.0	0.000	20.9	670	0.0	0.000	20.9	670	0.0
25-Feb-16	8:30	140	E	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	580	0.0	0.000	20.9	600	0.0
26-Feb-16	8:30	170	E	0.000	20.9	660	0.0	0.000	20.9	650	0.0	0.000	20.9	650	0.0	0.000	20.9	660	0.0	0.000	20.9	660	0.0
	9:00	117	E	0.000	20.9	660	0.0	0.000	20.9	650	0.0	0.000	20.9	660	0.0	0.000	20.9	660	0.0	0.000	20.9	660	0.0
1-Mar-16	8:30	135	E	0.000	20.9	680	0.0	0.000	20.9	680	0.0	0.000	20.9	680	0.0	0.000	20.9	680	0.0	0.000	20.9	680	0.0
2-Mar-16	8:15	60	E	0.000	20.9	670	0.0	0.000	20.9	670	0.0	0.000	20.9	680	0.0	0.000	20.9	690	0.0	0.000	20.9	660	0.0
3-Mar-16	10:45	62	W	0.000	20.9	690	0.0	0.000	20.9	690	0.0	0.000	20.9	690	0.0	0.000	20.9	690	0.0	0.000	20.9	690	0.0
7-Mar-16	12:15	116	S	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0
15-Mar-16	9:00	207	E	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0
22-Mar-16	10:15	208	W	0.000	20.9	700	0.0	0.000	20.9	700	0.0	0.000	20.9	720	0.0	0.000	20.9	700	0.0	0.000	20.9	700	0.0
23-Mar-16	15:00	207	N	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0	0.000	20.9	720	0.0
28-Mar-16	14:15	123	S	0.000	20.9	710	0.0	0.000	20.9	710	0.0	0.000	20.9	720	0.0	0.000	20.9	710	0.0	0.000	20.9	710	0.0
29-Mar-16	10:00	117	S	0.000	20.9	690	0.0	0.000	20.9	690	0.0	0.000	20.9	690	0.0	0.000	20.9	690	0.0	0.000	20.9	690	0.0
30-Mar-16	10:15	207	E	0.000	20.9	730	0.0	0.000	20.9	720	0.0	0.000	20.9	730	0.0	0.000	20.9	730	0.0	0.000	20.9	730	0.0
31-Mar-16	9:45	123	W	0.000	20.9	730	0.0	0.000	20.9	720	0.0	0.002	20.9	730	0.0	0.001	20.9	730	0.0	0.003	20.9	730	0.0
1-Apr-16	8:45	207	E	0.000	20.9	650	0.0	0.000	20.9	650	0.0	0.000	20.9	650	0.0	0.000	20.9	650	0.0	0.000	20.9	640	0.0
2-Apr-16	9:15	207	W	0.000	20.9	740	0.0	0.000	20.9	740	0.0	0.000	20.9	750	0.0	0.000	20.9	740	0.0	0.000	20.9	740	0.0
4-Apr-16	11:15	123	N	0.000	20.9	750	0.0	0.000	20.9	750	0.0	0.000	20.9	750	0.0	0.000	20.9	740	0.0	0.000	20.9	750	0.0

LCP Chemicals Site, Brunswick GA - Carbon Dioxide Sparging
 AMBIENT AIR MONITORING DATA

				Sample Location Relative to Well Head																			
				North				South				East				West				Well			
				Units																			
Date	Time	Sparge Well	Wind direction	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv	mg/m ³	%	ppmv	ppmv
				Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S	Hg	O ₂	CO ₂	H ₂ S
5-Apr-16	8:30	207	S	0.000	20.9	760	0.0	0.000	20.9	760	0.0	0.000	20.9	760	0.0	0.000	20.9	760	0.0	0.000	20.9	760	0.0
6-Apr-16	9:00	123	S	0.000	20.9	760	0.0	0.000	20.9	760	0.0	0.000	20.9	770	0.0	0.000	20.9	760	0.0	0.000	20.9	760	0.0
7-Apr-16	8:30	207	E	0.000	20.9	750	0.0	0.000	20.9	750	0.0	0.000	20.9	750	0.0	0.000	20.9	760	0.0	0.000	20.9	750	0.0
10-May-16	8:30	110	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0	0.000	20.9	560	0.0
11-May-16	9:45	180	E	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0	0.000	20.9	580	0.0
	10:00	52	E	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	610	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0
12-May-16	8:30	110	S	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0
	8:45	73	E	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	610	0.0	0.000	20.9	600	0.0	0.000	20.9	610	0.0
13-May-16	9:00	49	N	0.000	20.9	620	0.0	0.000	20.9	620	0.0	0.000	20.9	630	0.0	0.000	20.9	620	0.0	0.000	20.9	630	0.0
16-May-16	9:00	14	E	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	600	0.0	0.000	20.9	610	0.0	0.000	20.9	600	0.0
17-May-16	8:00	73	N	0.000	20.9	610	0.0	0.000	20.9	610	0.0	0.000	20.9	620	0.0	0.000	20.9	610	0.0	0.000	20.9	610	0.0

Appendix G:

Hydrographs

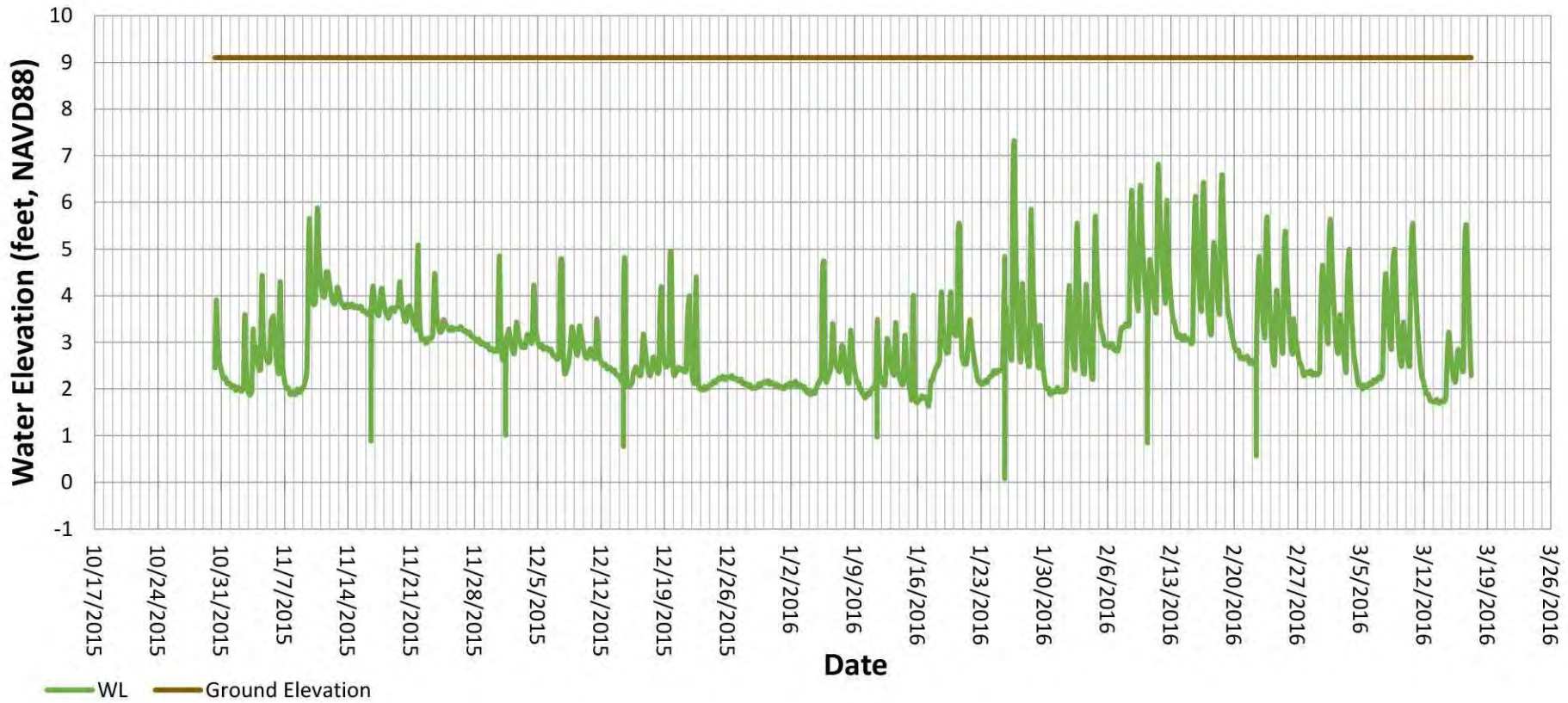


Figure G-1: MW-501B Hydrograph.
LCP Chemicals Site, Brunswick, GA

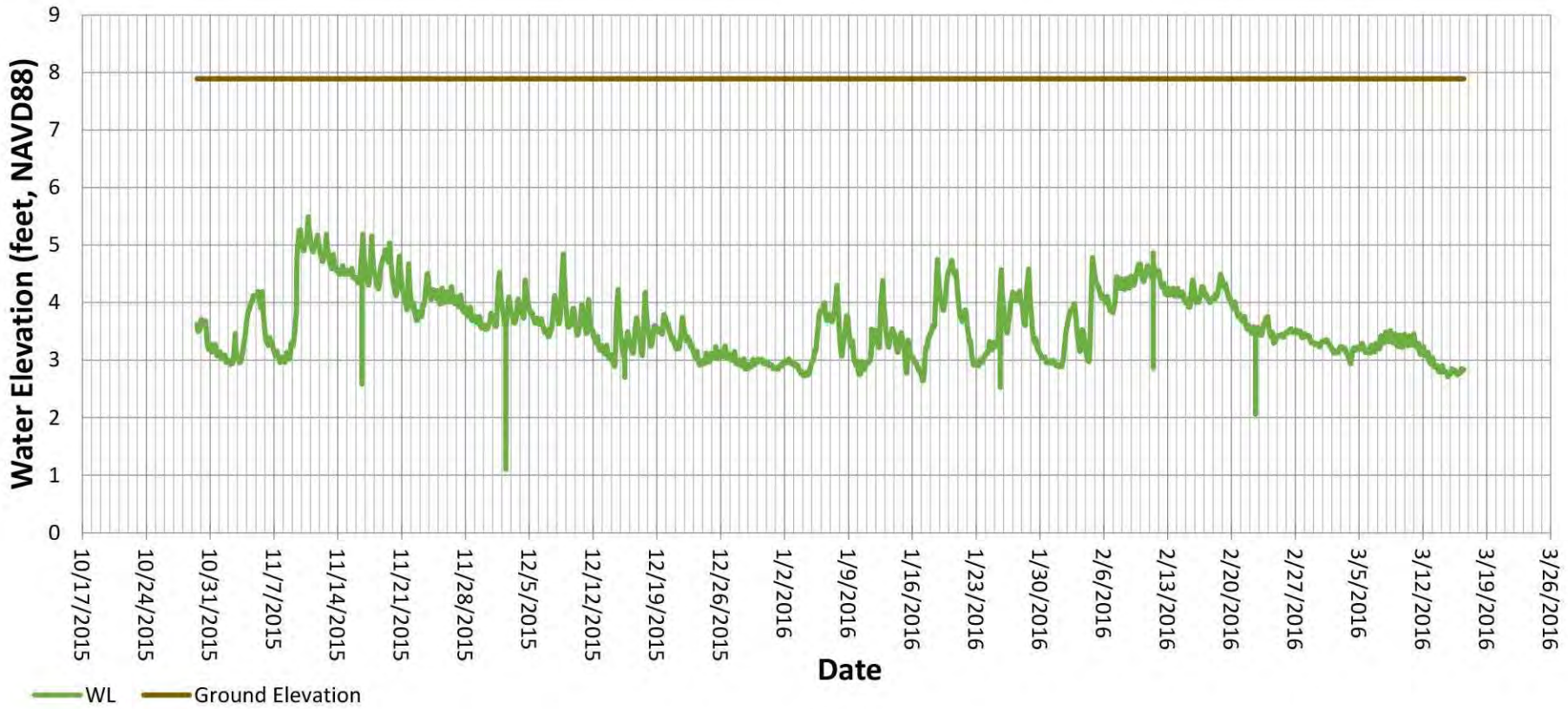


Figure G-2: MW-503B Hydrograph.
LCP Chemicals Site, Brunswick, GA

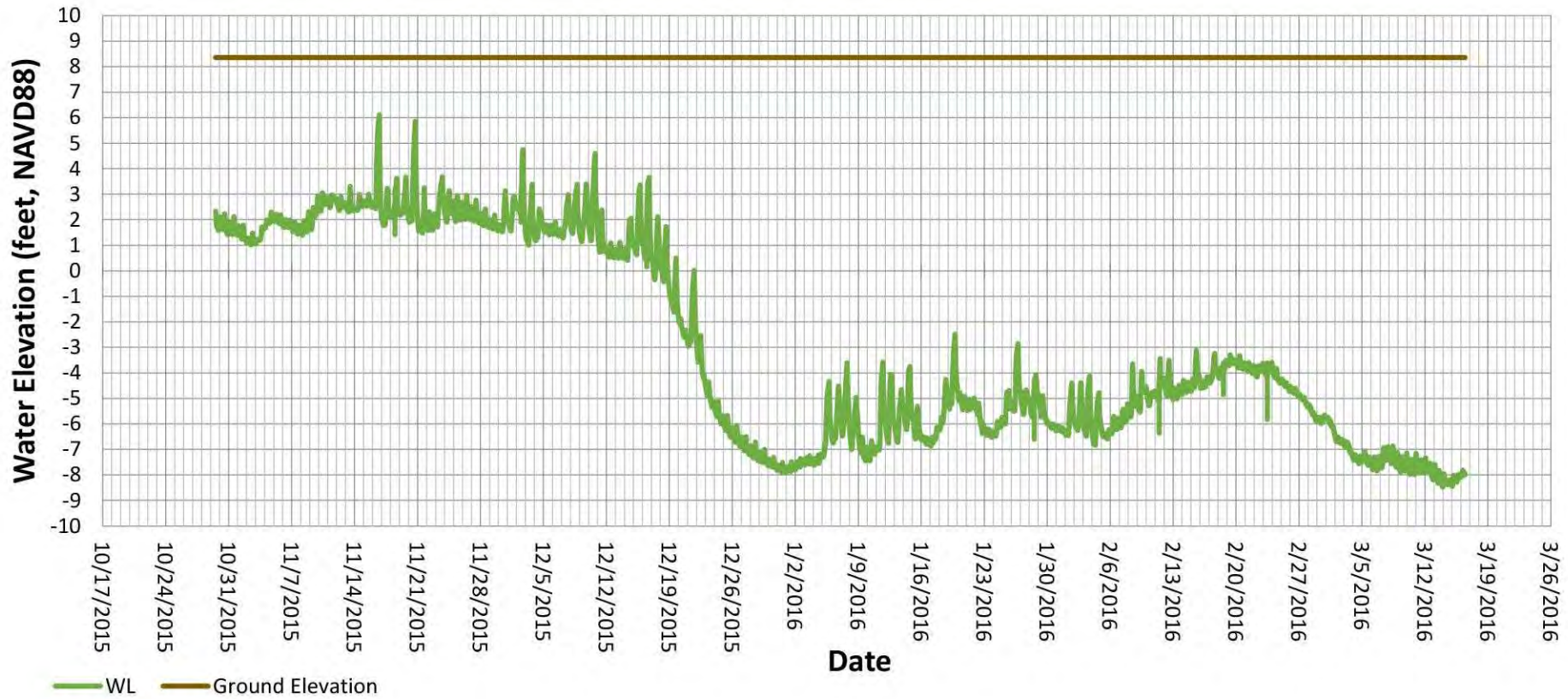


Figure G-3: MW-507B Hydrograph.
LCP Chemicals Site, Brunswick, GA

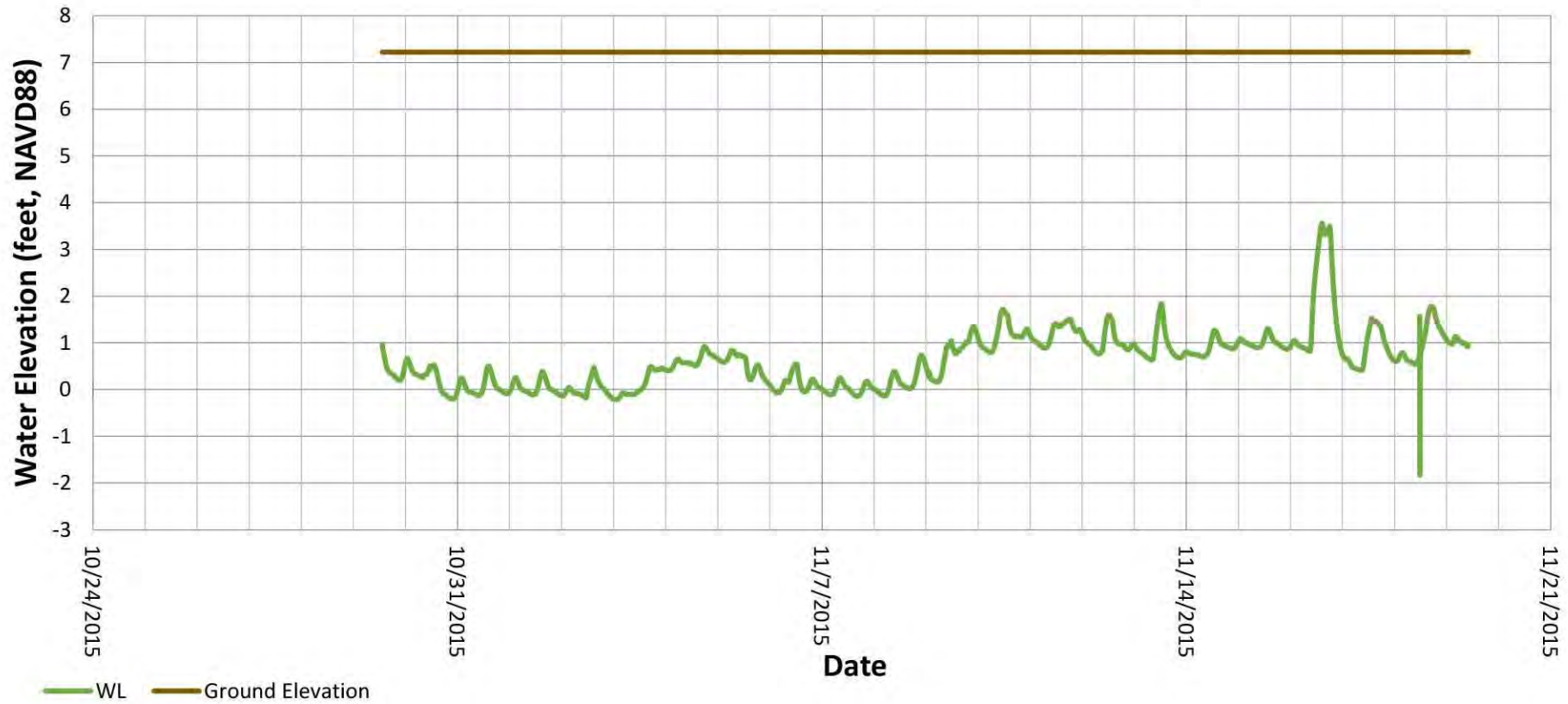


Figure G-4: MW-508B Hydrograph.
LCP Chemicals Site, Brunswick, GA

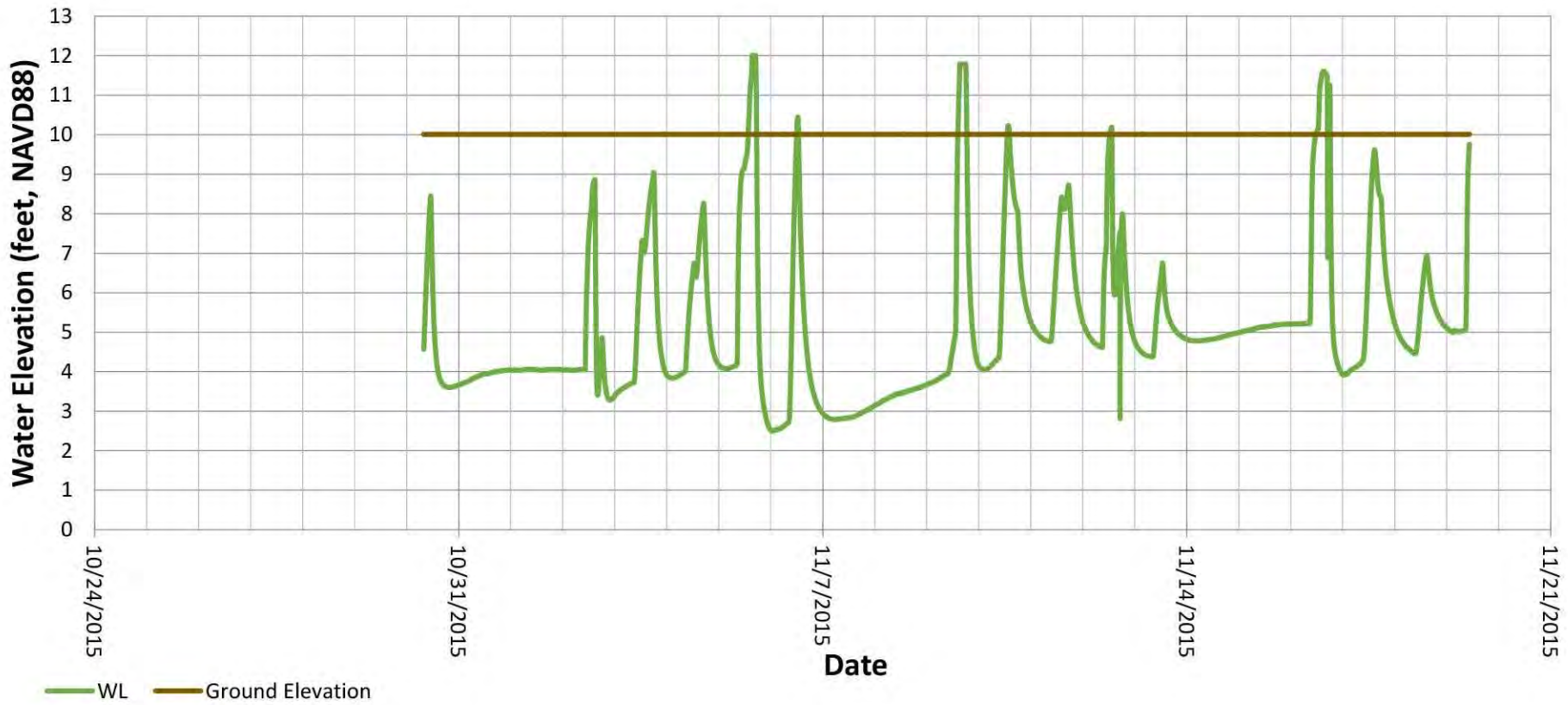


Figure G-5: MW-513B Hydrograph.
LCP Chemicals Site, Brunswick, GA

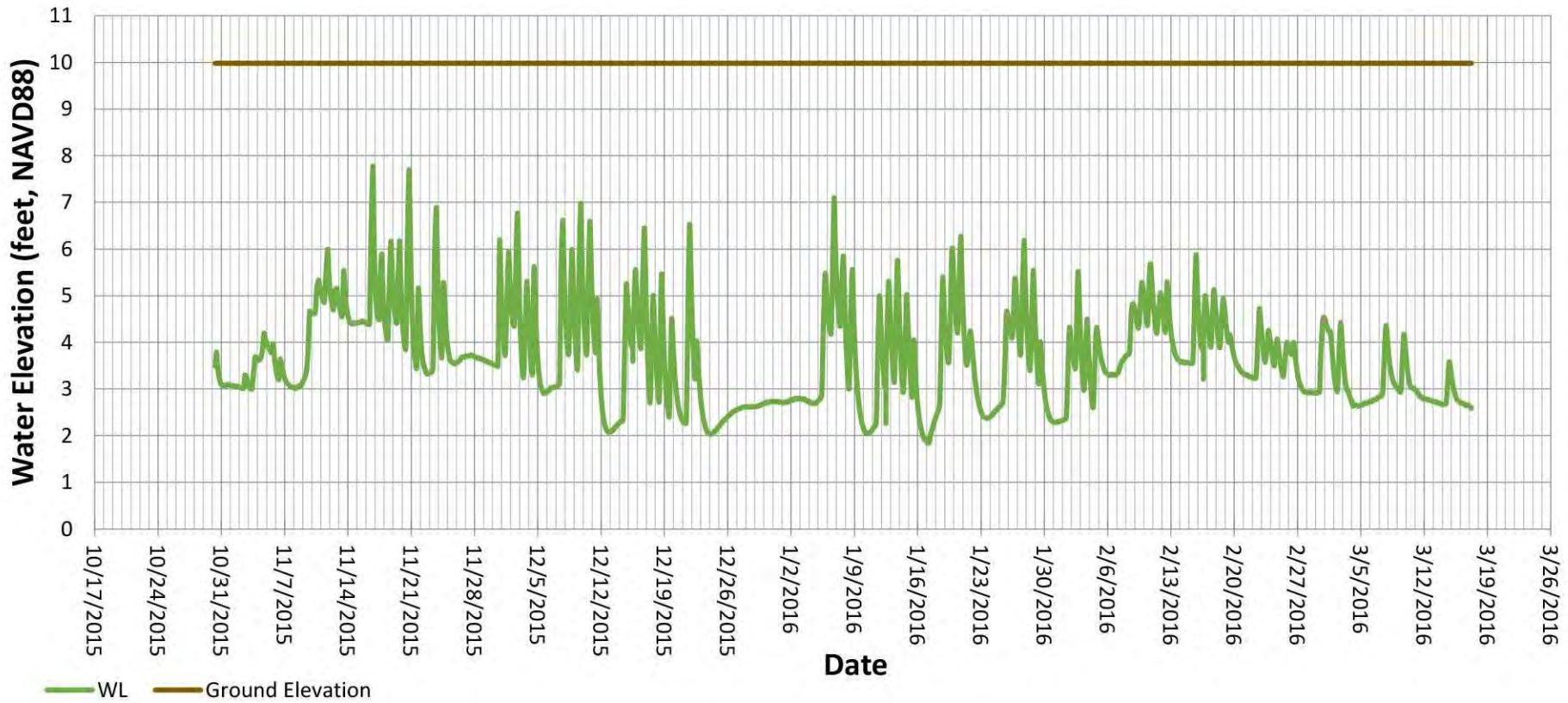


Figure G-6: MW-515B Hydrograph.
LCP Chemicals Site, Brunswick, GA

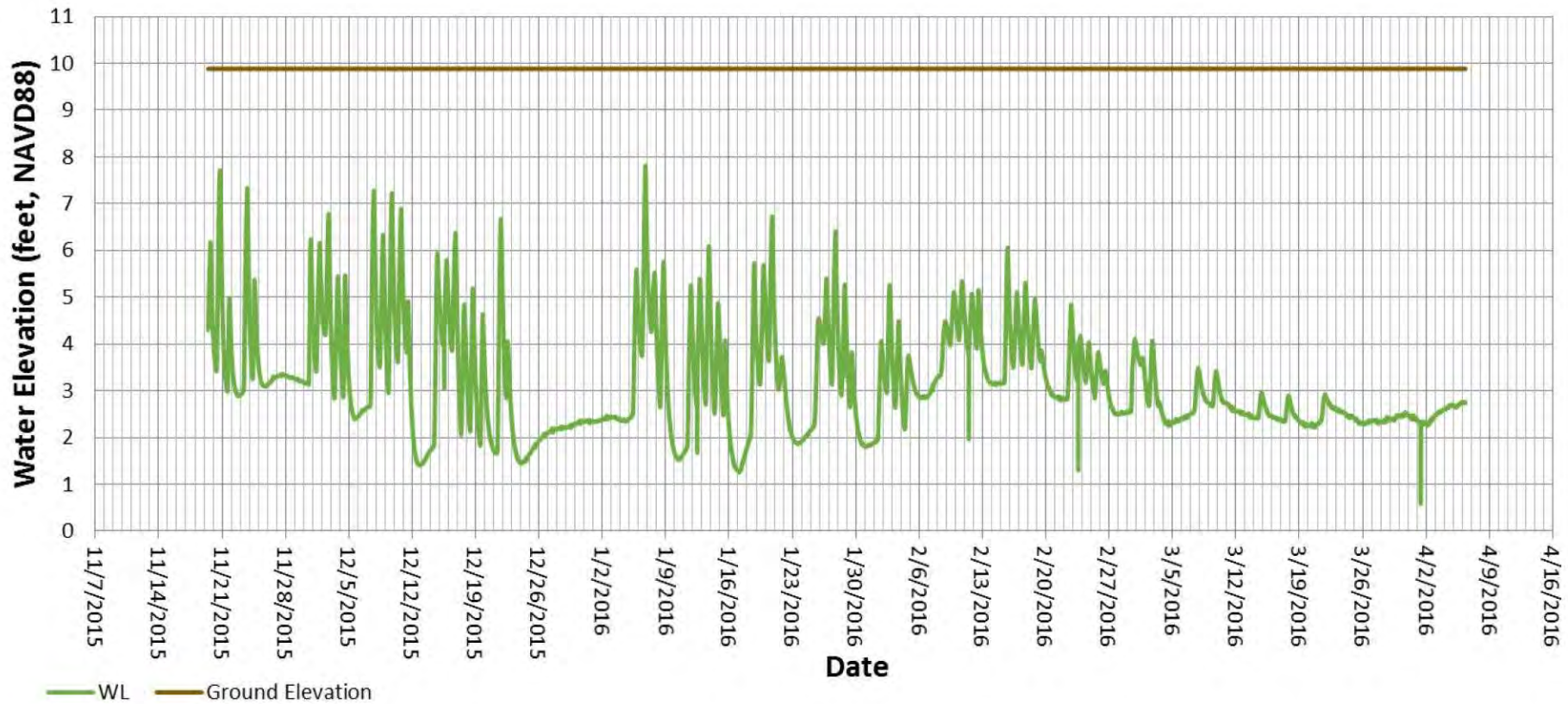


Figure G-7: MW-519B Hydrograph.
LCP Chemicals Site, Brunswick, GA

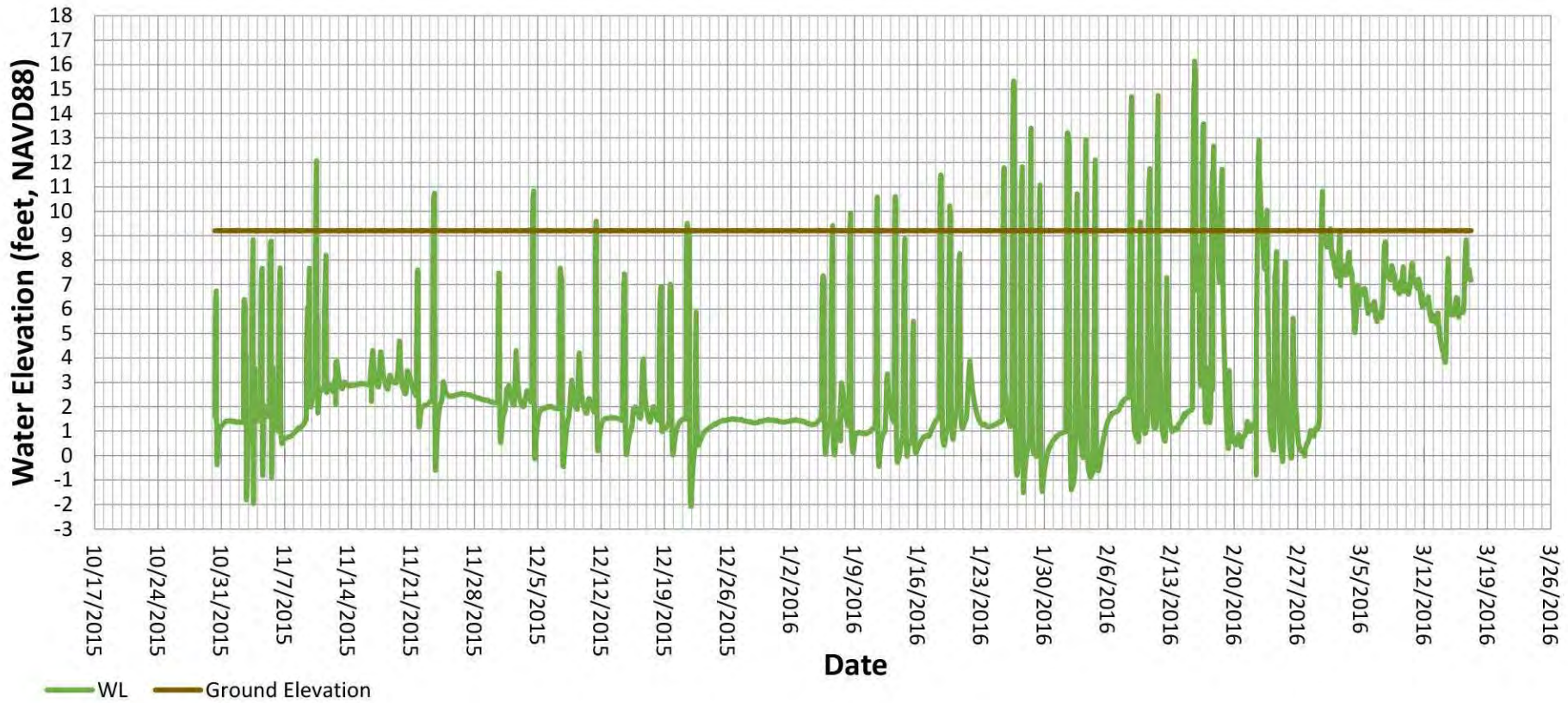


Figure G-8: MW-352B Hydrograph.
LCP Chemicals Site, Brunswick, GA

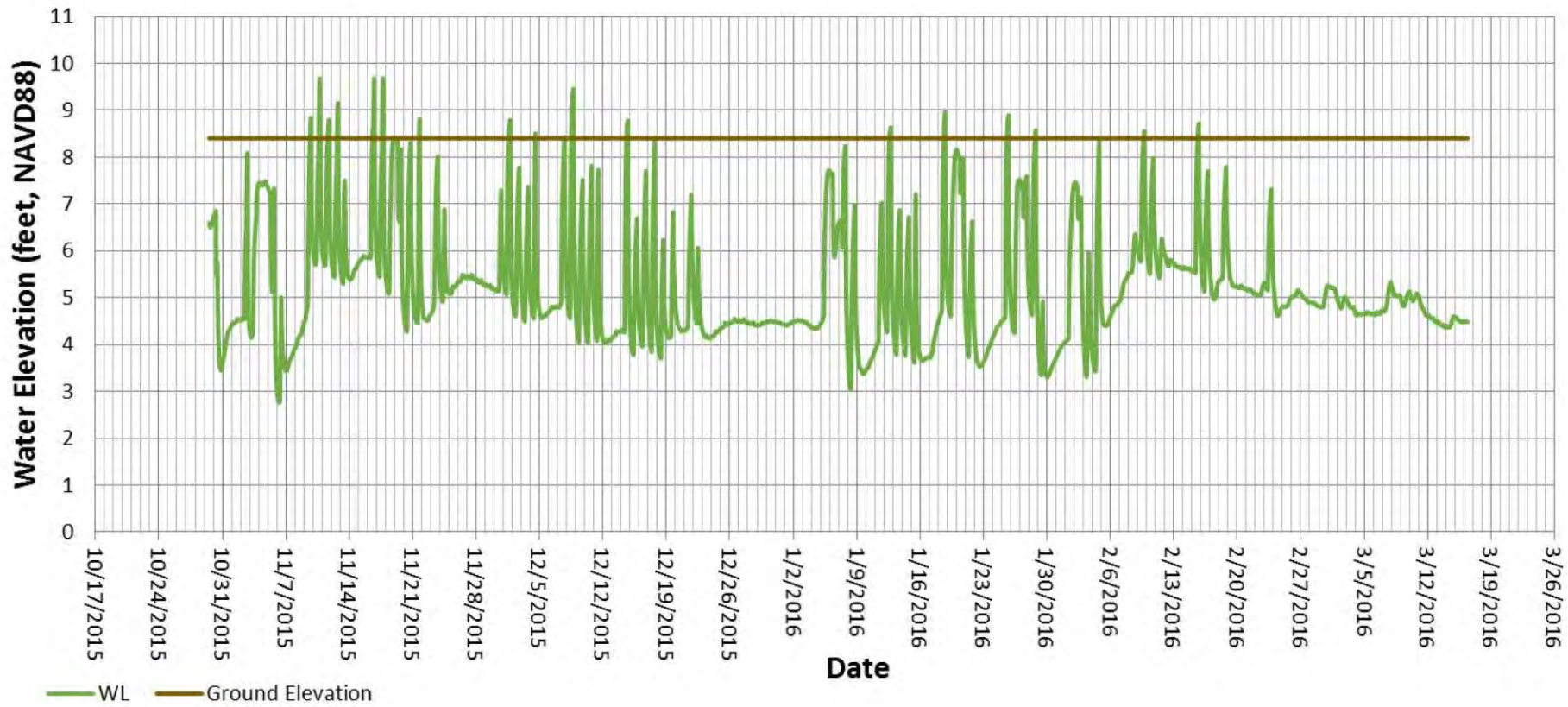


Figure G-9: MW-353B Hydrograph.
LCP Chemicals Site, Brunswick, GA

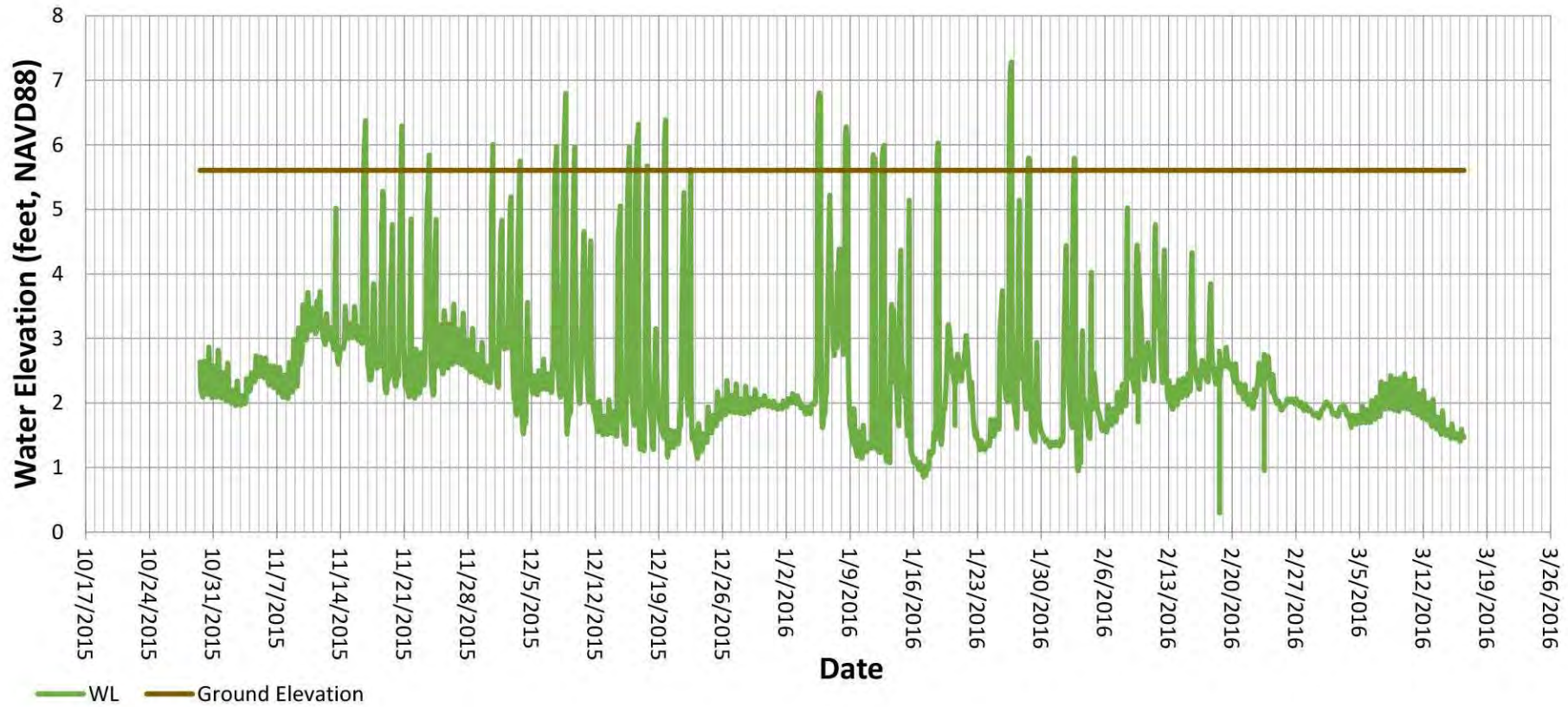


Figure G-10: MW-112C Hydrograph.
LCP Chemicals Site, Brunswick, GA