

Appendix D

Low-Flow Sampling Data



Shaw Environmental & Infrastructure, Inc.

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

MONITOR WELL SAMPLING FORM

Project # _____

Monitoring Well ID: 01-MW-9 Weather: _____

Depth to Water: 3.58 Well Depth: _____

Saturated Thickness: _____ Well Volume: _____

Purge Equipment: _____

Sampling Equipment: _____

Decontamination Technique: _____

Date: 4/10/13
~~4/12/2012~~

Well Diameter: _____

Purge Volume (X3): _____

Time	Pump Rate (GPM)	Gallons Removed	DTW	pH	Temp	ORP/Redox	Specific Conductance	DO	Turbidity	Comments
1355			3.58	7.36	14.21	-60.5	2259	1.98	322.6	
1400				7.27	12.98	-57.1	2198	1.52	97.7	
1405				7.20	12.30	-54.9	2184	1.13	85.5	
1410				7.19	12.27	-54.5	2179	1.12	83.1	
1415				7.16	12.22	-54.3	2181	0.89	38.1	
1420				7.15	12.18	-54.1	2188	0.82	35.3	
1425				7.17	12.21	-54.6	2187	0.84	35.3	

Laboratory Analyses Requested: _____

Purge Water Management: _____

Sampler: Spencer Waybrant

QA/QC Samples Collected: _____

Sample Preservation: ICE / HNO3

Signature: [Signature]

5 @ 1430



Shaw Environmental & Infrastructure, Inc.

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

MONITOR WELL SAMPLING FORM

Project # _____

4/10/13

Monitoring Well ID: 063-MW-12 Weather: _____

Date: 4/10/13

Depth to Water: 4.44 Well Depth: 10'

Well Diameter: 2"

Saturated Thickness: _____ Well Volume: _____

Purge Volume (X3): _____

Purge Equipment: _____

Sampling Equipment: _____

Decontamination Technique: _____

Time	Pump Rate (GPM)	Gallons Removed	DTW	pH	Temp	ORP/Redox	Specific Conductance	DO	Turbidity	Comments
1135			4.44	6.45	15.22	14.3	22.16	1.84	1175.9	
1140				6.44	14.82	3.8	22.23	1.48	1171.5	
1145				6.45	14.70	-128	22.49	2.10	1171.2	
1150				6.46	14.60	-22.5	22.54	1.49	1169.5	
1155				6.47	14.41	-31.4	22.69	2.32	1098.5	
1200				6.47	14.26	-35.2	22.64	1.53	997.8	
1205				6.47	14.43	-39.4	22.61	1.56	948.6	

Laboratory Analyses Requested: _____

QA/QC Samples Collected: _____

Purge Water Management: _____

Sample Preservation: ICE & H₂O₂

Sampler: Spencer Waybrant

Signature: [Signature]

SA 1210



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136
 Project Name: PPG 63

Monitoring Well ID: MW-101 Weather: 70'S overcast
 Depth to Water: 1.52 Well Depth: 6.83
 Saturated Thickness: — Well Volume: —
 Purge Equipment: MPSO

Date: 6/23/16
 Well Diameter: 2"
 Purge Volume (X3): —

Sampling Equipment: YSI 650, 5242 O2H 1014 AT YSI L920

Decontamination Technique: Distilled water and alcohol
 ± 0.1 unit ± 30% ± 10% ± 3% ± 10% ± 10%

Time	Pump Rate (GPM)	Gallons Removed	DTW	pH	Temp °C	ORP/Redox	Specific Conductance mS/cm	DO mg/L	Turbidity NTU	Comments
1250	100 ml/min		1.60	9.86	23.41	67.4	0.376	1.38	161.2	
1255				9.93	22.27	61.9	0.398	0.53	164.3	
1300				9.93	21.67	58.8	0.404	0.58	163.5	
1305				9.92	21.29	57.1	0.406	0.30	168.8	
1310			1.55	9.92	21.02	56.2	0.407	0.26	174.5	
1315				9.92	20.90	54.7	0.407	0.24	180.1	
1320				9.93	20.77	54.1	0.407	0.22	183.1	
1325				9.93	20.73	53.1	0.409	0.21	185.3	
Final Temperature reading after Correction (°C):										

YSI/Horiba Temperature Correction Value from Supplier (°C): —
 Laboratory Analyses Requested: Crbt, select metals
 Purge Water Management: drums
 Sampler: Kerry Treacy

Supplier YSI/Horiba ID #: 5242
 QA/QC Samples Collected: 12
 Sample Preservation: —
 Signature: [Signature]



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136
 Project Name: PPG 63

Monitoring Well ID: MW-102 Weather: 80's Sunny
 Depth to Water: 1.90 Well Depth: 7.72
 Saturated Thickness: _____ Well Volume: _____
 Purge Equipment: MPSO

Date: 6/23/14
 Well Diameter: 2"
 Purge Volume (X3): _____

Sampling Equipment: YSI 650, 5242 02M 1014AJ US1 L920

Decontamination Technique: Distilled water and alconox
I 10% I 3% I 10% I 3% I 10% I 10%

Time	Pump Rate (GPM)	Gallons Removed	DTW	pH	Temp °C	ORP/Redox	Specific Conductance mS/cm	DO mg/L	Turbidity NTU	Comments
1430	10 min		1.90	7.42	21.55	107.9	0.768	0.71	60.3	
1435				7.50	21.16	101.5	0.736	0.62	39.2	
1440				7.65	20.69	93.8	0.670	0.49	19.0	
1445				7.75	20.46	89.2	0.671	0.42	13.2	
1450				7.81	20.37	86.8	0.581	0.37	11.1	
1455				7.89	20.26	85.0	0.562	0.33	10.5	
1500			1.91	7.92	20.23	84.5	0.549	0.32	10.4	
Final Temperature reading after Correction (°C): _____										

1455

YSI/Horiba Temperature Correction Value from Supplier (°C): _____
 Laboratory Analyses Requested: _____
 Purge Water Management: drums
 Sampler: KERRY TREAVY

Supplier YSI/Horiba ID #: 5242
 QA/QC Samples Collected: duplicate
 Sample Preservation: _____
 Signature: [Signature]



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136

Project Name: PPG 63

Monitoring Well ID: MW-103 Weather: 70°F overcast

Date: 06/23/16

Depth to Water: 1.45' Well Depth: 6-20'

Well Diameter: 2"

Saturated Thickness: _____ Well Volume: _____

Purge Volume (X3): _____

Purge Equipment: MPSO

Sampling Equipment: YSI 650, 5452 02H1014AJ YSI 1920

Decontamination Technique: Distilled water and alconex

Time	Pump Rate (GPM)	Gallons Removed	DTW Feet	± 1 min ± 3%		± 10 min ± 3%		± 10%		Turbidity NTU	Comments
				pH	Temp °C	ORP/Redox	Specific Conductance mS/cm	DO mg/L			
1055	100 m/min			7.77	19.72	43.0	1.09	1.61	799.6		
1100				7.83	20.00	40.7	1.012	0.98	697.5		
1105			1.45'	7.86	20.15	40.6	1.018	0.78	577.3		
1110				7.96	19.91	38.6	0.960	0.65	724.1		
1115				8.03	20.18	37.0	0.948	0.55	582.1		
1120			1.45'	8.03	20.32	36.8	0.953	0.53	456.5		
1125				8.07	20.18	36.9	0.956	0.49	377.2		
1130				8.07	19.96	37.9	0.979	0.46	277.1		
1135				8.04	19.65	39.1	1.002	0.48	224.4		
1140			1.45'	8.01	19.31	39.9	1.027	0.50	184.3		
1145				8.00	19.27	40.7	1.047	0.48	161.7		
1150				7.99	19.28	40.7	1.058	0.48	151.2		
1155	✓			7.99	19.31	40.7	1.058	0.49	140.8		
Final Temperature reading after Correction (°C): _____											

YSI/Horiba Temperature Correction Value from Supplier (°C): _____

Supplier YSI/Horiba ID #: 8242

Laboratory Analyses Requested: _____

QA/QC Samples Collected: no

Purge Water Management: drums

Sample Preservation: -16

Sampler: Jeff Amador

Signature: _____



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136
 Project Name: PPG 63

Monitoring Well ID: MW-101 Weather: 90'S Sunny
 Depth to Water: _____ Well Depth: _____
 Saturated Thickness: — Well Volume: —
 Purge Equipment: MPSO
 Sampling Equipment: YSI 6920, bladder pump
 Decontamination Technique: Distilled water and acconox

Date: 07/21/16
 Well Diameter: 2"
 Purge Volume (X3): _____

I. line ± 3% ± 10% ± 3% ± 10% ± 10%

Time	Pump Rate (GPM)	Gallons Removed	DTW	pH	Temp °C	ORP/Redox	Specific Conductance mS/cm	DO mg/L	Turbidity NTU	Comments
1315			1.0'	8.41	33.06	47.4	0.148	0.18	59.9	
1320				9.70	27.09	17.6	0.341	0.10	85.4	
1325				9.89	26.81	9.4	0.379	0.06	100.1	
1330				9.92	26.76	7.0	0.399	0.04	114.7	
1335				9.92	26.58	5.5	0.404	0.03	118.5	
1340				9.91	26.40	5.4	0.406	0.03	120.5	
1345				9.91	26.32	4.6	0.408	0.03	125.2	
1350				9.91	26.36	4.4	0.408	0.04	124.5	
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): 0.02
 Laboratory Analyses Requested: _____
 Purge Water Management: drums
 Sampler: Kerry Theary

Supplier YSI/Horiba ID #: 5587
 QA/QC Samples Collected: duplicate
 Sample Preservation: ice
 Signature: [Signature]



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136

Project Name: PPG 63

Monitoring Well ID: MW-102 Weather: 80's sunny

Date: 7/21/16

Depth to Water: 1.55' Well Depth: 7.72'

Well Diameter: 2"

Saturated Thickness: — Well Volume: —

Purge Volume (X3): —

Purge Equipment: MPSO

Sampling Equipment: _____

Decontamination Technique: Distilled water and alconox

I: 10% ± 3% ± 10% ± 3% I: 10% ± 10%

Time	Pump Rate (GPM)	Gallons Removed	DTW	pH	Temp °C	ORP/Redox	Specific Conductance mS/cm	DO mg/L	Turbidity NTU	Comments
1205	100 ml/min		1.6	7.35	25.03	36.0	1.086	1.24	45.3	
1210				7.32	23.80	19.2	0.981	0.50	52.4	
1215				7.47	23.55	7.0	0.934	0.29	50.2	
1220				7.58	23.41	10.2	0.752	0.19	49.9	
1225				7.68	23.47	12.6	0.693	0.12	47.2	
1230				7.76	23.28	15.2	0.662	0.11	42.7	
1235				7.78	23.45	17.3	0.631	0.08	44.6	
1240				7.83	23.50	19.5	0.615	0.08	42.8	
1245				7.90	23.66	19.7	0.595	0.08	42.5	
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____

Supplier YSI/Horiba ID #: 5587

Laboratory Analyses Requested: _____

QA/QC Samples Collected: 4

Purge Water Management: drums

Sample Preservation: IC

Sampler: Kerry Treacy

Signature: [Signature]



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136
 Project Name: PP063

Monitoring Well ID: MW-103 Weather: 80'S Sunny
 Depth to Water: 1.00' Well Depth: 6.20'
 Saturated Thickness: Well Volume:
 Purge Equipment: MPSO

Date: 7/21/16
 Well Diameter: 2"
 Purge Volume (X3):

Sampling Equipment:
 Decontamination Technique: Distilled water and alcohol

±10% ±10% ±10% ±10% ±10%

Time	Pump Rate (GPM)	Gallons Removed	DTW	pH	Temp °C	ORP/Redox	Specific Conductance mS/cm	DO mg/L	Turbidity NTU	Comments
1015	<u>100 ml/min</u>	<u>10</u>	<u>1.00</u>	<u>9.01</u>	<u>23.45</u>	<u>24.7</u>	<u>0.568</u>	<u>4.41</u>	<u>46.0</u>	
1020				<u>9.56</u>	<u>23.23</u>	<u>38.4</u>	<u>0.720</u>	<u>4.00</u>	<u>40.3</u>	
1025				<u>9.36</u>	<u>22.89</u>	<u>49.1</u>	<u>0.872</u>	<u>3.66</u>	<u>165.3</u>	
1030			<u>1.15</u>	<u>9.29</u>	<u>22.78</u>	<u>53.8</u>	<u>0.913</u>	<u>3.28</u>	<u>100.1</u>	
1035				<u>9.25</u>	<u>22.80</u>	<u>57.2</u>	<u>0.944</u>	<u>3.25</u>	<u>95.3</u>	
1040				<u>9.22</u>	<u>22.77</u>	<u>60.0</u>	<u>0.959</u>	<u>2.91</u>	<u>93.4</u>	
1045				<u>9.38</u>	<u>23.72</u>	<u>55.6</u>	<u>0.862</u>	<u>3.31</u>	<u>158.3</u>	
1050				<u>9.69</u>	<u>24.87</u>	<u>51.3</u>	<u>0.789</u>	<u>3.46</u>	<u>136.3</u>	
1052				<u>9.69</u>	<u>25.11</u>	<u>51.7</u>	<u>0.781</u>	<u>3.43</u>	<u>129.0</u>	
Final Temperature reading after Correction (°C): <u> </u>										

YSI/Horiba Temperature Correction Value from Supplier (°C):
 Laboratory Analyses Requested:
 Purge Water Management: drums
 Sampler: Kerry Treacy

Supplier YSI/Horiba ID #: 5587
 QA/QC Samples Collected: MS/MSD
 Sample Preservation: ice
 Signature: [Signature]

mm
mm

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 1 OF 2

SITE: PPG 63-65
 DATE: 7-26-17
 WEATHER: MSUN 72°F
 CONSULTING FIRM: APTIM
 FIELD PERSONNEL: COOK, TREACY

MONITOR WELL #: MW-101 WELL DEPTH: 8
 WELL PERMIT #: _____ WELL DIAMETER: 2 inches
 SCREENED/OPEN INTERVAL: _____

PID/FID READINGS (ppm): BACKGROUND: 0.0 PUMP INTAKE DEPTH: 5.5 ft below TOC
 BENEATH OUTER CAP: 0.0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 0.94 ft below TOC
 BENEATH INNER CAP: 0.0 MAKE/MODEL OF PUMP: QED SAMPLE PRO

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv) ORP		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0905	X		START	NA		NA		NA		NA		NA		NA	240	
0910	X		9.61		0.516		161.7		3.85		166.7		23.42			0.96
0915	X		9.63		0.513		167.5		3.80		160.0		23.26			0.97
0920	X		9.62		0.508		171.3		3.89		157.5		23.20			0.97
0925	X		9.62		0.508		173.3		3.02		157.9		23.23			0.97
0930	X		9.64		0.508		176.7		3.73		156.7		23.19			0.97
0935	X		9.62		0.508		179.6		4.23		155.5		23.14			0.97
0940	X		9.62		0.509		182.2		4.29		153.7		23.12			0.97
0945	X		9.58		0.510		163.1		4.12		153.8		23.10			0.97
0950	X		9.60		0.511		173.0		4.19		155.6		23.08			0.97
0955	X		9.60		0.514		181.4		4.03		155.7		23.04			0.97
COMMENTS: 1000	X		9.66		0.516		183.8		4.17		159.7		23.04			0.97
1005	X		9.60		0.518		187.7		4.08		159.7		23.04			0.97

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 2 OF 2

SITE: PPG 63-65 CONSULTING FIRM: _____
 DATE: _____ FIELD PERSONNEL: _____
 WEATHER: _____

MONITOR WELL #: MW-101 WELL DEPTH: _____ SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: _____ inches

PID/FID READINGS (ppm): BACKGROUND: _____ PUMP INTAKE DEPTH: _____ ft below TOC
 BENEATH OUTER CAP: _____ DEPTH TO WATER BEFORE PUMP INSTALLATION: _____ ft below TOC
 BENEATH INNER CAP: _____ MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1010	X		9.60	NA	0.521	NA	190.4	NA	3.96	NA	159.9	NA	23.06	NA	240	0.97
1015	X		9.61		0.522		193.1		3.85		160.2		23.06			0.97
1020			HOLD PUMP PENDING DECISION RE: TURBIDITY													
1030	X		9.62		0.523		196.6		2.67		160.0		23.40			0.97
1035	X		9.57		0.526		204.7		2.56		160.7		23.10			0.97
1040	X		9.59		0.528		206.5		2.51		159.5		22.95			0.97
1045	X		9.58		0.528		207.1		2.41		158.5		23.01			0.97
1050	X		9.58		0.530		207.9		2.32		157.7		23.11			0.97
1055	X		9.60		0.531		208.8		2.23		157.5		23.13			0.97
1100	X		9.60		0.533		209.9		2.18		157.9		23.22			0.97
1105	X		9.60		0.534		210.9		2.06		156.7		23.29			0.97

COMMENTS:

1110 X SAMPLE HEX CHROME + CCPW METALS

(NOTE: ADDITIONAL BOTTLE COLLECTED TO BE LAB-FILTERED FOR CCPW DUE TO TURBIDITY)

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 15 OF 2

SITE: PRG 63/65 CONSULTING FIRM: APTIM
 DATE: 07/26/17 FIELD PERSONNEL: COOK, TREACY
 WEATHER: MSUN 80°F

MONITOR WELL #: MW-102 WELL DEPTH: 8' SCREENED/OPEN INTERVAL: 3'
 WELL PERMIT #: NA WELL DIAMETER: 2" inches

PID/FID READINGS (ppm): BACKGROUND: 0 PUMP INTAKE DEPTH: 5.5 ft below TOC
 BENEATH OUTER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 1.16 ft below TOC
 BENEATH INNER CAP: 0 MAKE/MODEL OF PUMP: QED SAMPLE PRO

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv) <u>ORP</u>		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1140	X		START	NA		NA		NA		NA		NA		NA	200	1.16
1145	X		6.77		0.993		-78.2		1.28		127.3		24.06			1.16
1150	X		6.83		0.952		-84.1		1.32		100.5		24.32			1.16
1155	X		6.97		0.905		-92.9		1.13		54.8		24.53			1.16
1200	X		7.07		0.821		-96.2		1.13		30.7		24.62			1.16
1205	X		7.16		0.761		-99.3		1.13		24.2		24.69			1.16
1210	X		7.22		0.710		-101.0		1.19		22.1		24.73			1.16
1215	X		7.28		0.650		-101.4		1.25		18.9		24.72			1.16
1220	X		7.32		0.613		-104.5		1.35		17.6		24.78			1.16
1225	X		7.36		0.592		-104.5		1.33		16.2		24.80			1.16
1230	X		7.43		0.560		-114.3		1.37		13.1		24.86			1.16

COMMENTS:

* INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 2 OF 2

SITE: PPG 63/65 CONSULTING FIRM: _____
 DATE: _____ FIELD PERSONNEL: _____
 WEATHER: _____

MONITOR WELL #: MW-102 WELL DEPTH: _____ SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: _____ inches

PID/FID READINGS (ppm): BACKGROUND: _____ PUMP INTAKE DEPTH: _____ ft below TOC
 BENEATH OUTER CAP: _____ DEPTH TO WATER BEFORE PUMP INSTALLATION: _____ ft below TOC
 BENEATH INNER CAP: _____ MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1235	X		7.47	NA	0.547	NA	-114.6	NA	1.32	NA	12.4	NA	24.87	NA	200	1.16
1240	X		7.52		0.526		-117.5		1.28		11.4		24.93			1.16
1245	X		7.53		0.513		-118.5		1.14		11.0		24.93			1.16
1250	X		7.57		0.504		-118.9		1.01		11.0		24.96			1.16
1255	X		7.59		0.494		-121.0		0.94		10.8		24.97			1.16
1300	X		7.63		0.491		-125.2		0.92		10.8		25.02			1.16
1305	X		SAMPLE													
1310	X		SAMPLE DUP													

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 1 OF 2

SITE: PPG 63/65 CONSULTING FIRM: APTIM
 DATE: 07/26/17 FIELD PERSONNEL: COOK, TRACY
 WEATHER: sun 80°F

MONITOR WELL #: MW-202 WELL DEPTH: 11 SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: 2 inches

PID/FID READINGS (ppm): BACKGROUND: 0 PUMP INTAKE DEPTH: 8.5 ft below TOC
 BENEATH OUTER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.19 ft below TOC
 BENEATH INNER CAP: 38.2 MAKE/MODEL OF PUMP: _____

TIME	PURGING SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1350	X	START	NA		NA		NA		NA		NA		NA	110	
1355	X	10.52		7.580		-275.6		0.13		142.8		23.60			2.73
1400	X	10.71		7.444		-300.6		0.08		140.2		23.55			2.78
1405	X	11.01		7.141		-282.2		0.05		133.2		23.47			2.83
1410	X	11.19		6.987		-280.0		0.05		118.1		23.40			2.87
1415	X	11.29		6.899		-269.7		0.05		110.3		23.47			2.89
1420	X	11.38		6.845		-275.9		0.08		95.6		23.41			2.92
1425	X	11.40		6.825		-277.4		0.10		83.6		23.38			2.93
1430	X	11.45		6.802		-281.2		0.09		75.7		23.35			2.94
1435	X	11.48		6.784		-278.6		0.09		71.3		23.23			2.96
1440	X	EMPTY CELL (NO READING)													

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 2 OF 2

SITE: PPG 63/65 CONSULTING FIRM: _____
 DATE: _____ FIELD PERSONNEL: _____
 WEATHER: _____

MONITOR WELL #: MW-202 WELL DEPTH: _____ SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: _____ inches

PID/FID READINGS (ppm): BACKGROUND: _____ PUMP INTAKE DEPTH: _____ ft below TOC
 BENEATH OUTER CAP: _____ DEPTH TO WATER BEFORE PUMP INSTALLATION: _____ ft below TOC
 BENEATH INNER CAP: _____ MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1445	X		11.54	NA	6.746	NA	-278.5	NA	0.06	NA	63.4	NA	22.44	NA	110	2.99
1450	X		11.56		6.750		-298.8		0.06		60.1		22.61			3.00
1455	X		11.52		6.744		-304.5		0.06		56.6		22.63			3.02
1500	X		11.53		6.743		-303.1		0.06		55.5		22.70			3.03
1505	X		SAMPLE													

COMMENTS: COLLECT ADD'L. BOTTLE FOR METALS (LAB-FILTERED)

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

mm

LOW FLOW SAMPLING DATA SHEET

SHEET 1 OF 2 21

SITE: PPG 63/65 CONSULTING FIRM: APTIM
 DATE: 07/26/17 FIELD PERSONNEL: COOK, TREACY
 WEATHER: Sunny 80°F

MONITOR WELL #: MW-201 WELL DEPTH: 11 SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: 2 inches

PID/FID READINGS (ppm): BACKGROUND: 0 PUMP INTAKE DEPTH: 8.5 ft below TOC
 BENEATH OUTER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 3.70 ft below TOC
 BENEATH INNER CAP: 4.4 ppm MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv) <u>ORP</u>		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1530	X		START	NA		NA		NA		NA		NA		NA		
1535	X		6.24		6.330		-62.2		0.28		7.4		21.30			NA
1540	X		6.25		6.610		-63.4		0.26		5.5		21.43			NA
1545	X		6.25		6.717		-62.7		0.25		3.9		21.89			4.65
1550	✓		6.27		7.234		-61.7		0.25		3.7		22.11			4.65
1555	X		6.29		7.297		-62.3		0.26		3.7		23.08			4.75
1600	✓		6.31		7.350		-59.6		0.28		3.4		23.58			4.78
1605	X		6.30		7.416		-56.1		0.30		3.5		23.68			4.80
1610	X		Sample												50 ml/min	

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 1 OF 1

SITE: PPG 63/65 CONSULTING FIRM: APTIM
 DATE: 07/26/17 FIELD PERSONNEL: COOK + TREAACY
 WEATHER: 20's sunny

MONITOR WELL #: MW-12 WELL DEPTH: NA SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: NA inches

PID/FID READINGS (ppm): BACKGROUND: 0 PUMP INTAKE DEPTH: 5.5 ft below TOC 3.27
 BENEATH OUTER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.2 ft below TOC
 BENEATH INNER CAP: 2.2 ppm MAKE/MODEL OF PUMP: (A)

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
<u>1650</u>																
<u>1655</u>	X		<u>START</u>	<u>NA</u>		<u>NA</u>		<u>NA</u>		<u>NA</u>		<u>NA</u>		<u>NA</u>	<u>135 ml/min</u>	
<u>1655</u>	X		<u>6.94</u>		<u>10.67</u>		<u>-67.9</u>		<u>0.39</u>		<u>183.3</u>		<u>23.71</u>			<u>3.82</u>
<u>1700</u>	X		<u>6.84</u>		<u>13.08</u>		<u>-70.0</u>		<u>0.25</u>		<u>81.9</u>		<u>23.35</u>			<u>3.82</u>
<u>1705</u>	X		<u>6.82</u>		<u>13.55</u>		<u>-71.5</u>		<u>0.19</u>		<u>51.5</u>		<u>23.33</u>			<u>3.82</u>
<u>1710</u>	X		<u>6.81</u>		<u>13.47</u>		<u>-70.4</u>		<u>0.15</u>		<u>26.0</u>		<u>22.33</u>			<u>3.82</u>
<u>1715</u>	X		<u>6.82</u>		<u>13.35</u>		<u>-70.4</u>		<u>0.16</u>		<u>15.3</u>		<u>22.25</u>			<u>3.82</u>
<u>1720</u>	X		<u>6.82</u>		<u>13.14</u>		<u>-70.9</u>		<u>0.17</u>		<u>16.1</u>		<u>22.25</u>			<u>3.82</u>
<u>1725</u>	X		<u>6.84</u>		<u>12.93</u>		<u>-72.2</u>		<u>0.16</u>		<u>15.2</u>		<u>22.32</u>			<u>3.82</u>
<u>1730</u>	X		<u>6.85</u>		<u>12.79</u>		<u>-72.6</u>		<u>0.17</u>		<u>7.3</u>		<u>22.30</u>			<u>3.82</u>
<u>1735</u>	X		<u>6.85</u>		<u>12.65</u>		<u>-72.4</u>		<u>0.17</u>		<u>7.9</u>		<u>22.16</u>			<u>3.82</u>
<u>1740</u>	X		<u>6.85</u>		<u>12.61</u>		<u>-72.1</u>		<u>0.17</u>		<u>6.7</u>		<u>22.14</u>			<u>3.82</u>

COMMENTS:
1745, sample

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

LOW FLOW SAMPLING DATA SHEET

SHEET 1 OF

SITE: PP663/65 CONSULTING FIRM: APTIM
 DATE: 07/26/17 FIELD PERSONNEL: COOK, TREACY
 WEATHER: 90'S sun

MONITOR WELL #: MW-103 WELL DEPTH: 11
 WELL PERMIT #: WELL DIAMETER: 2 inches SCREENED/OPEN INTERVAL:

PID/FID READINGS (ppm): BACKGROUND: 0 PUMP INTAKE DEPTH: 5.5 ft below TOC
 BENEATH OUTER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 0.80 ft below TOC
 BENEATH INNER CAP: 0.9 MAKE/MODEL OF PUMP: QED SAMPLE PRO

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv) <u>ORP</u>		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1755	X		START	NA		NA		NA		NA		NA		NA	280	
1800	X		7.61		1.404		55.6		1.10		500.9		21.99			0.84
1805	X		7.76		1.123		81.8		1.09		370.0		21.85			0.85
1810	X		7.96		0.937		89.1		1.24		273.0		21.92			0.85
1815	X		8.06		0.885		99.8		1.09		165.1		21.93			0.85
1820	X		8.07		0.885		105.5		0.89		109.9		21.93			0.85
1825	X		8.07		0.904		106.7		0.67		77.6		21.93			0.85 ⁷⁹
1830	X		8.07		0.912		107.2		0.60		63.5		21.90			0.86
1835	X		8.00		0.919		108.3		0.52		55.4		21.86			0.87
1840	X		8.07		0.922		111.8		0.48		48.5		21.81			0.87
1845	X		8.06		0.925		113.7		0.44		48.1		21.78			0.87
COMMENTS: 1850	X		8.06		0.928		114.5		0.40		40.7		21.75			0.87
1855	X		8.06		0.928		115.6		0.40		30.0		21.75			0.87

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

W Sample @ 1900, MS, MSD and extra bottle for lab filter.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 1 OF 2

SITE: PPG 63165
 DATE: 02/12/18
 WEATHER: 30's sunny

CONSULTING FIRM: ARTIM
 FIELD PERSONNEL: E. Treacy, W. Hinegas

MONITOR WELL #: MW-201 WELL DEPTH: 10.35 SCREENED/OPEN INTERVAL: 5-10
 WELL PERMIT #: _____ WELL DIAMETER: 2" inches

PID/FID READINGS (ppm): BACKGROUND: 0.0 PUMP INTAKE DEPTH: ~~8.8~~ 8.8 ft below TOC
 BENEATH OUTER CAP: 0.0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.84 ft below TOC
 BENEATH INNER CAP: 0.0 MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH ± 0.1 (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) $\pm 3\%$		REDOX POTENTIAL ± 10 mV (mv) ORP		DISSOLVED OXYGEN (mg/l) $\pm 10\%$		TURBIDITY (NTU) $\pm 10\%$		TEMPERATURE (degrees C) $\pm 0.5^\circ$		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1130			7.09	NA	5.933	NA	-110.1	NA	2.86	NA	30.9	NA	7.67	NA	150 ml/min	2.84
1135			6.87		5.976		-101.6		2.68		27.3		7.31			"
1140			6.87		5.976		-101.6		1.79		26.8		7.27			"
1145			6.79		5.920		-86.1		1.24		24.2		7.14			"
1150			6.75		5.862		-81.6		0.24		28.0		7.14			"
1155			6.75		5.835		-81.3		0.25		29.9		7.14			"
1200			6.76		5.765		-78.9		0.27		29.1		7.15			"
1205			6.76		5.684		-78.2		6.44		29.2		7.19			"
1210			6.78		5.604		-77.7		0.09		28.8		7.27			"
1215			6.79		5.565		-77.5		0.08		29.7		7.27			"
1220			6.80		5.509		-77.5		0.07		30.2		7.27			"

COMMENTS: Sample @ MS, MSD

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 2 OF 2

SITE: _____ CONSULTING FIRM: _____
 DATE: _____ FIELD PERSONNEL: _____
 WEATHER: _____

MONITOR WELL #: MW 201 WELL DEPTH: _____ SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: _____ inches

PID/FID READINGS (ppm):
 BACKGROUND: _____ PUMP INTAKE DEPTH: _____ ft below TOC
 BENEATH OUTER CAP: _____ DEPTH TO WATER BEFORE PUMP INSTALLATION: _____ ft below TOC
 BENEATH INNER CAP: _____ MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH ± 0.1 (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) $\pm 3\%$		REDOX POTENTIAL ORP (mv) ± 10 mv		DISSOLVED OXYGEN (mg/l) $\pm 10\%$		TURBIDITY (NTU) $\pm 10\%$		TEMPERATURE (degrees C) $\pm 3\%$		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1225			6.81	NA	5.500	NA	-77.3	NA	0.11	NA	30.8	NA	7.25	NA		2.84
1230			6.81		5.485		-77.1		0.20		30.7		7.33			
1235			6.82		5.499		-77.1		0.17		31.0		7.33			
1240			6.85		5.592		-75.2		0.42		34.5		7.73			
1245			6.83		5.592		-75.7		0.40		34.7		7.83			
1250			6.81		5.606		-78.1		0.39		34.2		7.90			

COMMENTS:
sample @ 1250

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 1 OF 1

SITE: PPG 13/65 CONSULTING FIRM: ARTIM
 DATE: 02/13/18 FIELD PERSONNEL: E. Treacy, W. Milligas
 WEATHER: Sunny 30'S

MONITOR WELL #: MW-202 WELL DEPTH: 11.15 SCREENED/OPEN INTERVAL: 5-10' BGS
 WELL PERMIT #: _____ WELL DIAMETER: 2" Inches

PID/FID READINGS (ppm): BACKGROUND: 0.0 PUMP INTAKE DEPTH: 9.7 ft below TOC
 BENEATH OUTER CAP: 0.0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.55' ft below TOC
 BENEATH INNER CAP: 3.7 ppm MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH ± 0.1 (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) $\pm 3\%$		REDOX POTENTIAL E _{ORP} (mv) ORP		DISSOLVED OXYGEN (mg/l) $\pm 10\%$		TURBIDITY (NTU) $\pm 10\%$		TEMPERATURE (degrees C) $\pm 3\%$		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1000			11.91	NA	4.226	NA	-80.5	NA	2.38	NA	62.6	NA	7.15	NA	180 ml/min	2.55'
1005			11.85		4.248		-117.6		0.27		52.3		7.41			1)
1010			11.85		4.252		-129.0		0.51		47.8		7.46			2)
1015			11.37		4.285		-149.7		-0.02		37.2		7.53			
1020			11.86		4.287		-163.7		0.34		31.5		7.89			
1025			11.85		4.289		-170.7		1.23		29.2		8.10			
1030			11.85		4.312		-178.7		1.11		26.9		8.11			
1035			11.86		4.312		-183.5		-0.71		23.2		9.12			
1040			11.87		4.323		-184.1		-0.61		21.1		8.07			
1045			11.87		4.351		-187.9		-0.45		20.0		8.10			
1050			11.88		4.351		-193.2		-0.43		18.2		8.09			

COMMENTS: sample @ 1050, DUP

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET ____ OF ____

SITE: PPG 43/65
 DATE: 02/13/18
 WEATHER: 30° Sunny

CONSULTING FIRM: APTJM
 FIELD PERSONNEL: K. Tracy, W. H. Hayes

MONITOR WELL #: MW-302 WELL DEPTH: 9.94' SCREENED/OPEN INTERVAL: 5-10
 WELL PERMIT #: _____ WELL DIAMETER: 2" Inches

PID/FID READINGS (ppm): BACKGROUND: 0.0 PUMP INTAKE DEPTH: 8.44' ft below TOC
 BENEATH OUTER CAP: 0.0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.05 ft below TOC
 BENEATH INNER CAP: 0.3 MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv) CRP		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1340			7.21	NA	11.75	NA	-118.8	NA	6.20	NA	113.6	NA	8.73	NA	200 ml/min	4.05
1345			7.24		10.51		-142.7		5.68		84.0		8.43			
1350			7.26		9.904		-151.5		5.08		57.4		8.25			
1355			7.25		9.621		-152.3		4.22		41.8		8.16			
1400			7.24		9.494		-153.7		3.39		32.2		8.10			
1405			7.20		9.418		-157.8		2.27		21.8		8.07			
1410			7.20		9.409		-158.0		2.05		19.7		8.10			
1415			7.19		9.390		-159.3		2.02		16.9		8.05			
1420			7.17		9.349		-160.7		1.59		13.9		7.93			
1425			7.16		9.328		-158.0		1.59		13.9		7.90			
1430			7.16		9.286		-160.4		1.56		12.2		7.78			
1435			7.15		9.237		-160.9		1.52		11.6		7.72			
1440			7.15		9.187		-162.0		1.53		10.5		7.68			
1445	X		7.14		9.169		-162.5		1.51		10.3		7.66			

COMMENTS: Sampled @ 1445

* INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.



MONITOR WELL SAMPLING FORM

Well Dia	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136
 Monitoring Well ID MW-301
 Depth to Water 4.20
 Saturated Thickness _____

Project Name: PPG Site 63
 Weather Cloudy 70s
 Well Depth _____
 Well Volume _____

Date 7/26/18
 Well Diameter 2"
 Purge Volume (x3): _____

Purge Equipment _____
 Sampling Equipment YSI Bladder Pump
 Decontamination Technique Alcanox + DI water

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1120				8.95	24.78	-73.9	9.250	0.0	391.9	
1125				8.94	23.02	-195.7	10.40	0.05	374.1	
1130				8.97	22.46	-247.5	9.912	0.32	367.2	
1135				8.99	22.26	-265.7	9.715	0.09	315.6	
1140				9.00	22.17	-278.6	9.675	0.08	255.6	
1145				9.02	22.22	-286.7	9.515	0.05	191.6	
1150				9.03	22.14	-294.6	9.399	0.10	135.7	
1155				9.03	22.13	-300.0	9.442	0.22	109.6	
1200				9.03	22.30	-305.7	9.352	0.11	75.2	
1205				9.04	22.31	-308.6	9.253	0.05	63.0	
1210				9.04	22.14	-312.6	9.198	0.14	42.0	
1215				9.03	22.16	-313.6	9.170	0.03	32.3	
1220				9.03	22.13	-315.6	9.085	0.05	28.5	
1225				9.03	22.20	-317.0	9.094	0.04	22.3	
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): -0.34
 Laboratory Analyses Requested YCR, EH, PHLAB, NT, SB, TH, CR
 Purge Water Management Bucket to drum
 Sampler Name K. Grob K. Tracey

Supplier YSI Horiba ID #: 3329 Pine
 QA/QC Samples Collected: _____
 Sample Preservation ICE + HNO₃
 Signature: _____

* Pump Rate: Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mlpm) for low flow sampling.

** Indicator parameters have been stabilized when 3 consecutive readings are within ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity



MONITOR WELL SAMPLING FORM

Well Dia	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151134
 Monitoring Well ID MW-301
 Depth to Water 4.20'
 Saturated Thickness _____
 Purge Equipment YSI Bladder pump
 Sampling Equipment _____
 Decontamination Technique DICANOX + PL

Project Name: PPG site 63/65
 Weather cloudy 70's
 Well Depth: _____
 Well Volume: _____

Date: 07/20/18
 Well Diameter 2"
 Purge Volume (x3): _____

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1230				9.03	22.21	-318.3	9.094	6.0	20.8	
1235				9.03	22.22	-319.1	9.095	0.0	18.6	
1240	<u>Sample</u>									
Final Temperature reading after Correction (°C)										

YSI/Horiba Temperature Correction Value from Supplier (°C): See page 1
 Laboratory Analyses Requested: _____
 Purge Water Management: _____
 Sampler Name: _____

Supplier YSI/Horiba ID #: _____
 QA/QC Samples Collected: _____
 Sample Preservation: _____
 Signature: _____

* **Pump Rate:** Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mlpm) for low flow sampling
 ** **Indicator parameters have been stabilized when 3 consecutive readings are within** ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity.



MONITOR WELL SAMPLING FORM

Well Dia	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136
 Monitoring Well ID MW-302
 Depth to Water 4.20
 Saturated Thickness _____
 Purge Equipment YSI Bladder pump
 Sampling Equipment _____
 Decontamination Technique Alcanox + DI

Project Name: PPG site 63/65
 Weather Cloudy 70s
 Well Depth 9.95
 Well Volume _____
 Date 7/26/18
 Well Diameter 2"
 Purge Volume (x3) _____

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
0935				7.11	25.58	-110.0	9.542	0.3	274.5	
0940				7.10	26.11	-138.2	8.671	0.5	231.5	
0945				7.09	26.39	-138.9	8.126	0.5	219.5	
0950				7.07	26.85	-135.8	7.781	0.8	205.9	
0955				7.04	25.69	-146.8	6.882	1.1	146.8	
1000				7.01	25.48	-155.6	6.581	0.50	57.41	
1005				7.01	25.98	-157.6	6.536	0.37	52.5	
1010				7.01	25.66	-157.4	6.334	0.62	43.8	
1015				7.01	25.68	-157.4	6.221	0.39	35.7	
1020				7.01	25.70	-159.6	6.106	0.18	29.2	
1025				7.01	25.72	-159.3	6.022	0.10	25.5	
1030				7.02	25.74	-158.1	6.014	0.12	20.9	
1035				7.01	25.78	-158.7	6.010	0.11	18.9	
1040				7.02	25.81	-158.5	6.011	0.10	18.0	
Final Temperature reading after Correction (°C) _____										

YSI/Horiba Temperature Correction Value from Supplier (°C) -34
 Laboratory Analyses Requested XCR, EH, PH, TB, NI, SB, TL, CR
 Purge Water Management Bucket to drum
 Sampler Name K. Good K. Tracey

Supplier Horiba ID # 3329 Pine
 QA/QC Samples Collected Field Dupe
 Sample Preservation HNO3 + ICF
 Signature _____

* **Pump Rate:** Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mlpm) for low flow sampling
 ** **Indicator parameters have been stabilized when 3 consecutive readings are within** ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # 151136 Project Name: PRC site 63/65
 Monitoring Well ID MW-302 Weather cloudy 70's Date: 07/26/18
 Depth to Water 4.20' Well Depth 9.95' Well Diameter 2"
 Saturated Thickness _____ Well Volume: _____ Purge Volume (x3): _____
 Purge Equipment YSI Bladder pump
 Sampling Equipment _____
 Decontamination Technique Aquanox + DI

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC <0.3-ft)	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1045				7.01	25.84	158.0	6.008	0.13	17.0	
1055	sample									
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____ *see page 1* Supplier YSI/Horiba ID #: _____
 Laboratory Analyses Requested _____ QA/QC Samples Collected: _____
 Purge Water Management _____ Sample Preservation: _____
 Sampler Name _____ Signature: _____

* **Pump Rate:** Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mlpm) for low flow sampling.
 ** **Indicator parameters have been stabilized when 3 consecutive readings are within** ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # _____
 Monitoring Well ID: MW-301
 Depth to Water: 4.28'
 Saturated Thickness: _____
 Screened Interval: _____
 Purge Equipment (Make/Model of Pump): bladder pump
 Sampling Equipment: bottle
 Decontamination Technique: Alconox

Project Name: PPG 63/65
 Weather: 22°F cold
 Well Depth: 4'
 Well Volume: 600
 Pump Intake Depth: _____

Date: 03/07/19
 Well Diameter: 2"
 Purge Volume (x3): _____

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1100	100 mL/min		4.28'	10.52	8.93	-11.0	5.129	6.90	262.7	
1105				10.54	8.62	-11.9	5.201	8.06	250.3	
1110				10.64	8.22	-16.4	5.406	10.68	1203.3	
1115				10.66	8.03	-15.2	4.960	7.51	292.5	
1120				10.67	8.35	-19.5	5.867	6.77	250.0	
1125				10.67	8.47	-21.0	5.992	8.27	488.6	
1130				10.65	8.90	-22.7	6.225	8.84	924.4	
1135				10.62	8.88	-22.4	6.260	6.39	456.6	
1140				10.59	9.12	-22.8	6.446	7.94	1208.3	
1145				10.58	8.89	-23.0	6.679	6.66	1156.9	
1150				10.46	9.75	-40.0	8.221	4.40	201.5	
1155				10.51	9.95	-88.8	7.457	2.25	126.4	
1200				10.49	9.73	-110.5	7.188	1.17	711.2	
1205				10.55	9.79	-132.8	7.111	1.96	56.0	see page 2
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____ Supplier YSI/Horiba ID #: _____
 Laboratory Analyses Requested: hex chrome, ammonia, nitrite, nitrate, nitrate QA/QC Samples Collected: _____
 Purge Water Management: bucket to 200L Sample Preservation: NITRIC
 Sampler Name: Jerry Grewy Signature: Jerry Grewy

* **Pump Rate:** Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mL/min) for low flow sampling.
 ** **Indicator parameters have been stabilized when 3 consecutive readings are within:** ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity.



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # _____ Project Name: PP6 63/65

Monitoring Well ID: MW-301 Weather: _____ Date: 03/07/19

Depth to Water: _____ Well Depth: _____ Well Diameter: _____

Saturated Thickness: _____ Well Volume: _____ Purge Volume (x3): _____

Screened Interval: _____ Pump Intake Depth: _____

Purge Equipment (Make/Model of Pump): _____

Sampling Equipment: _____

Decontamination Technique: _____

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1210				10.52	9.75	-154.1	7.705	0.86	35.5	
1215				10.53	9.71	-155.2	7.108	0.89	33.9	
1220				10.54	10.20	-167.6	7.117	0.87	23.8	
1225				10.53	10.24	-174.6	7.108	0.14	20.6	
1230				10.54	10.08	-182.9	7.126	0.12	17.9	
1235				10.53	10.19	-190.2	7.153	0.20	15.8	
1240				10.60	9.56	-200.5	6.728	0.21	13.3	
1245				10.61	9.47	-200.6	6.646	0.21	13.1	
1250				10.65	8.21	-200.4	6.205	0.22	11.9	
1255				10.61	9.05	-200.1	6.252	0.20	12.3	
1300				10.60	7.64	-204.2	6.412	0.18	12.2	
1305				10.59	7.70	-208.1	6.362	0.19	11.5	
1310				10.58	7.76	-211.7	6.556	0.15	11.0	
1315				10.57	7.74	-216.2	6.415	0.19	11.2	KT instructed to sample by crystal leave y
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____ Supplier YSI/Horiba ID #: _____

Laboratory Analyses Requested: _____ QA/QC Samples Collected: _____

Purge Water Management: _____ Sample Preservation: _____

Sampler Name: _____ Signature: _____

* Pump Rate: Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mL/min) for low flow sampling.

** Indicator parameters have been stabilized when 3 consecutive readings are within: ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity.



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # _____
 Monitoring Well ID: MW-202
 Depth to Water: 2.25
 Saturated Thickness: _____
 Screened Interval: _____
 Purge Equipment (Make/Model of Pump): bladder pump
 Sampling Equipment: 2 bottles
 Decontamination Technique: Alconox + DI

Project Name: PPG Site E3-E5
 Weather: clear sky, high wind, ~10° Date: 3/7/19
 Well Depth: _____ Well Diameter: 2"
 Well Volume: _____ Purge Volume (x3): _____
 Pump Intake Depth: _____

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
0920	120		10	10.65	6.46	-42.5	4.184	0.44	113.2	
0925				10.80	6.53	-47.1	4.150	0.47	111.0	
0930				11.30	6.50	-76.7	4.086	0.49	102.7	
0935				11.63	6.43	-108.4	4.068	0.28	92.5	
0940				11.65	6.32	-127.5	4.069	0.22	83.6	
0945				11.84	5.58	-166.0	4.080	0.18	72.6	
0950				11.87	5.02	-191.5	4.088	0.21	68.9	
0955				11.91	4.10	-207.2	4.110	0.22	65.0	
1000				11.99	3.86	-223.9	4.111	0.24	58.3	
1005				11.97	3.95	-226.0	4.118	0.24	59.4	Sampled
1010										
1015										
1020										
1025										
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____ Supplier YSI/Horiba ID #: _____
 Laboratory Analyses Requested: Hexchrome, Antimony, Thallium, Vanadium, Nickel QA/QC Samples Collected: DUP-1
 Purge Water Management: bucket to barrel Sample Preservation: Total Nitric
 Sampler Name: E. Barkley Signature: E. Barkley

* Pump Rate: Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mL/min) for low flow sampling.

** Indicator parameters have been stabilized when 3 consecutive readings are within: ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity.



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # _____

Project Name: PPG 63/65

Monitoring Well ID: MW-702

Weather: partially cloudy, mild wind, ~10-20°F Date: 3/7/19

Depth to Water: _____

Well Depth: _____

Well Diameter: 2"

Saturated Thickness: _____

Well Volume: _____

Purge Volume (x3): _____

Screened Interval: _____

Pump Intake Depth: _____

Purge Equipment (Make/Model of Pump): bladder pump

Sampling Equipment: lab bottleware

Decontamination Technique: Alconox +DI wash

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1040	150			7.44	8.01	-112.8	13.53	0.24	246.3	
1045				7.26	7.84	-122.1	12.61	0.16	295.6	
1050				7.18	7.79	-132.6	9.971	0.26	343.1	
1055				7.03	7.86	-129.1	6.711	0.32	266.1	
1100				6.75	8.01	-128.3	6.236	0.32	136.2	
1105				6.87	7.92	-132.9	6.031	0.28	76.5	
1110				6.88	7.94	-133.2	6.023	0.24	79.1	
1115				6.92	7.77	-134.0	6.000	0.25	66.0	
1120				6.87	7.72	-135.2	5.987	0.25	58.8	
1125				6.85	7.81	-137.0	5.927	0.27	55.8	
1130				6.92	7.70	-106.6	5.928	0.26	55.2	contacted Crystal about
1135				6.91	7.75	-104.9	5.829	0.54	50.7	turb; advised to wait for
1140				6.90	7.81	-102.6	5.831	0.57	45.7	it to drop <10.
1145	↓			6.84	7.90	-99.0	5.795	0.68	33.1	
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____

Supplier YSI/Horiba ID #: 17974

Laboratory Analyses Requested: _____

QA/QC Samples Collected: MS/MSD

Purge Water Management: bucket to drum

Sample Preservation: Nitric

Sampler Name: E. Parkey

Signature: Elixir Baurley

* Pump Rate: Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mL/min) for low flow sampling.

** Indicator parameters have been stabilized when 3 consecutive readings are within: ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity.



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # _____

Project Name: _____

Monitoring Well ID: MW-302

Weather: overcast mild wind ~10°-20°F

Date: 3/7/19

Depth to Water: _____

Well Depth: _____

Well Diameter: 2"

Saturated Thickness: _____

Well Volume: _____

Purge Volume (x3): _____

Screened Interval: _____

Pump Intake Depth: _____

Purge Equipment (Make/Model of Pump): bladder pump

Sampling Equipment: lab bottleware

Decontamination Technique: Alconex + DI wash

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1150	150			6.85	7.96	-108.8	5.788	0.60	31.7	
1155				6.85	8.00	-112.9	5.788	0.60	29.1	
1200				6.89	8.04	-121.1	5.720	0.53	26.7	
1205				6.90	7.93	-125.6	5.708	0.35	22.9	
1210				6.90	7.88	-129.9	5.668	0.46	21.2	
1215				6.88	8.05	-133.3	5.615	0.21	17.8	
1220				6.88	8.00	-134.7	5.604	0.23	15.6	
1225				6.88	8.12	-136.8	5.579	0.37	18.7	
1230				6.87	8.30	-137.0	5.569	0.20	12.1	
1235				6.86	8.37	-138.7	5.537	0.27	9.9	
1240				6.86	8.40	-139.0	5.516	0.25	9.7	
1245				6.81	8.42	-141.0	5.510	0.25	9.6	
1250				6.80	8.47	-141.3	5.509	0.22	9.5	Sampled
1255										
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____

Supplier YSI/Horiba ID #: _____

Laboratory Analyses Requested: _____

QA/QC Samples Collected: MS/MSD

Purge Water Management: bucket to drum

Sample Preservation: Nitric

Sampler Name: E. Barkley

Signature: Eliav Barkley

* **Pump Rate:** Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mL/min) for low flow sampling.

** **Indicator parameters have been stabilized when 3 consecutive readings are within:** ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity.



MONITOR WELL SAMPLING FORM

Well Dia.	Gal/Foot
2"	0.16
4"	0.65
6"	1.47
8"	2.61

Project # _____

Project Name: PPG 63/65

Monitoring Well ID: MW-303

Weather: overcast, medium wind, ~20°F

Date: 3/7/19

Depth to Water: _____

Well Depth: _____

Well Diameter: _____

Saturated Thickness: _____

Well Volume: _____

Purge Volume (x3): _____

Screened Interval: _____

Pump Intake Depth: _____

Purge Equipment (Make/Model of Pump): bladder pump

Sampling Equipment: lab bottleware

Decontamination Technique: Alconox + DI wash

Time (24-hr)	Pump Rate	Gallons Removed (gal)	DTW (ft TOC) <0.3-ft	pH (SU) ±0.1	Temp (°C) ±3%	ORP/Redox (mV) ±10mV	Specific Conductance (mS/cm2) ±3%	DO (mg/L) ±10%	Turbidity (NTU) ±10%	Comments
1345	150			7.05	7.68	30.5	4.644	3.21	23.5	
1350				7.50	7.56	32.4	4.526	2.96	21.3	
1355				6.80	8.48	32.0	4.395	2.43	16.6	
1400				6.75	7.62	31.1	4.404	2.24	14.5	
1405				6.69	8.20	26.6	4.423	1.71	13.5	
1410				6.66	7.43	23.0	4.452	1.49	10.2	
1415				6.61	7.53	17.4	4.931	1.15	8.2	
1420				6.61	8.08	10.9	4.539	1.14	7.5	
1425				6.67	8.09	9.8	4.529	0.99	7.0	Sampled
Final Temperature reading after Correction (°C): _____										

YSI/Horiba Temperature Correction Value from Supplier (°C): _____

Supplier YSI/Horiba ID #: 17974

Laboratory Analyses Requested: _____

QA/QC Samples Collected: _____

Purge Water Management: bucket to drum

Sample Preservation: Nitric

Sampler Name: E. Barkley

Signature: Elean Barkley

* Pump Rate: Indicate gallons per minute (gpm) for volume-averaged sampling or mL per minute (mL/min) for low flow sampling.

** Indicator parameters have been stabilized when 3 consecutive readings are within: ±0.1 for pH, ±3% for specific conductivity and temperature, ±10mV for ORP, and ±10% for DO and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET ____ OF ____

SITE: PD6 63/65
 DATE: April 5, 2019
 WEATHER: 44° overcast/rainy
 CONSULTING FIRM: ADT/M
 FIELD PERSONNEL: KTREAWY

MONITOR WELL #: MW-303 WELL DEPTH: 15'
 WELL PERMIT #: _____ WELL DIAMETER: 2" inches SCREENED/OPEN INTERVAL: _____

PID/FID READINGS (ppm): BACKGROUND: 0.0
 BENEATH OUTER CAP: 0.0
 BENEATH INNER CAP: 0.0
 PUMP INTAKE DEPTH: 7' BGS ft below TOC
 DEPTH TO WATER BEFORE PUMP INSTALLATION: 5.40 ft below TOC
 MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH ± 0.1 (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) $\pm 3\%$		REDOX POTENTIAL ± 10 (mv) ORP		DISSOLVED OXYGEN (mg/l) $\pm 10\%$		TURBIDITY (NTU) $\pm 10\%$		TEMPERATURE (degrees C) $\pm 3\%$		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1035			6.89	NA	0.010	NA	153.6	NA	10.74	NA	25.2	NA	11.06	NA	100 ml/min	5.40
1040			6.88		0.009		153.7		10.71		13.7		11.05			
1045			6.94		0.016		-32.3		10.02		143.4		10.38			
1050			7.08		0.013		-58.8		9.92		62.4		9.98			
1055			7.12		0.012		-69.6		9.89		22.9		9.98			
1100			7.14		0.011		-73.2		9.86		18.5		9.90			
1105			7.12		0.010		-78.9		9.96		14.3		9.93			
1110			7.17		0.016		-86.1		10.14		11.2		9.99			
1115			7.16		0.010		-87.7		10.42		11.0		9.99			
1120		X	7.15		0.010		-43.3		10.46		9.7		10.01			

COMMENTS:
MW-303 is parent of MS/MSD, DUP

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 1 OF 2

SITE: PPG 63165
 DATE: 05/26/21
 WEATHER: 80's Sunny
 CONSULTING FIRM: APTM
 FIELD PERSONNEL: R. Treaw

MONITOR WELL #: MW-PPG 251 WELL DEPTH: 10'
 WELL PERMIT #: _____ WELL DIAMETER: 2" inches SCREENED/OPEN INTERVAL: 5-10'

PID/FID READINGS (ppm):
 BACKGROUND: 0.0
 BENEATH OUTER CAP: 0.0
 BENEATH INNER CAP: 0.0
 PUMP INTAKE DEPTH: 6 ft below TOC
 DEPTH TO WATER BEFORE PUMP INSTALLATION: 2.8' ft below TOC
 MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH ± 0.1 (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) $\pm 3\%$		REDOX POTENTIAL OR (mv) $\pm 10\text{mV}$		DISSOLVED OXYGEN (mg/l) $\pm 10\%$		TURBIDITY (NTU) $\pm 10\%$		TEMPERATURE (degrees C) $\pm 3\%$		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1205			8.78	NA	6.824	NA	-137.5	NA	4.64	NA	277.5	NA	19.47	NA	10 ml/min	2.8'
1210			8.79		6.870		-139.3		6.85		271.5		19.44			
1215			8.80		6.912		-139.7		6.42		177.0		19.30			
1220			8.83		7.131		-138.4		6.05		160.0		18.82			
1225			8.85		7.124		-139.4		7.56		96.0		18.80			
1230			8.88		6.987		-142.2		4.91		106.3		18.72			
1235			8.84		6.951		-145		6.59		108.2		18.53			
1240			8.82		6.836		-143.5		5.18		360.2		18.58			
1245			8.82		6.832		-147.3		4.92		31.2		18.55			
1250			8.82		6.834		-146.0		5.20		33.4		18.60			
1255			8.82		6.620		-143.5		5.16		33.9		18.54			

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; $\pm 10\text{ mV}$ for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 2 OF 2

SITE: PP67 63/65 CONSULTING FIRM: APTM
 DATE: 05/26/21 FIELD PERSONNEL: Iamy
 WEATHER: 8015 Sunny

MONITOR WELL #: MW-301 WELL DEPTH: _____ SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: _____ inches

PID/FID READINGS (ppm): BACKGROUND: _____ PUMP INTAKE DEPTH: _____ ft below TOC
 BENEATH OUTER CAP: _____ DEPTH TO WATER BEFORE PUMP INSTALLATION: _____ ft below TOC
 BENEATH INNER CAP: _____ MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv) ORP		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1300			8.92	NA	6.815	NA	-147.8	NA	5.79	NA	33.3	NA	18.52	NA		
1305			8.92		6.826		-136.5		6.31		31.4		19.84			
1310			8.91		6.822		-128.6		6.20		32.2		19.61			
1315			8.91		6.835		-129.4		6.22		31.3		19.68			
1320			8.85		6.900		32.4		3.28		36.0		25.17			
1325			8.82		6.898		71.2		2.70		36.0		26.34			
1330			8.83		6.903		79.3		2.37		34.3		27.22			
1335			8.81		6.900		83.6		2.07		34.0		28.17			
1340			8.80		6.890		86.8		1.68		31.2		29.30			
1345			8.80		6.883		84.3		1.51		29.4		30.05			
1350	X		8.79		6.864		84.3		1.56		30.0		30.13			

COMMENTS: *Sample @ 1350 Purely of DVP (mS/mS)*

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 1 OF 2

SITE: PPG63/65 CONSULTING FIRM: APTIM
 DATE: 05/26/21 FIELD PERSONNEL: K. Treacy
 WEATHER: 05 sunny

MONITOR WELL #: MW-302 WELL DEPTH: 10' SCREENED/OPEN INTERVAL: 5-10'
 WELL PERMIT #: _____ WELL DIAMETER: _____ inches

PID/FID READINGS (ppm): BACKGROUND: 0.0 PUMP INTAKE DEPTH: 7' ft below TOC
 BENEATH OUTER CAP: 0.0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 420 ft below TOC
 BENEATH INNER CAP: 0.0 MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH ± 0.1 (pH units) PH		SPECIFIC CONDUCTIVITY (mS/cm) $\pm 3\%$		REDOX POTENTIAL ORP (mv) $\pm 10\%$		DISSOLVED OXYGEN (mg/l) $\pm 10\%$		TURBIDITY (NTU) $\pm 10\%$		TEMPERATURE (degrees C) $\pm 3\%$		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1500			7.41	NA	3.027	NA	-167.0	NA	43.12	NA	38.1	NA	16.26	NA	127 ml/min	4.20
1505			7.40		2.847		-163.4		54.32		36.6		19.07			
1510			7.38		2.859		-158.2		46.43		31.4		19.04			
1515			7.36		2.866		-156.1		40.36		29.7		19.00			
1520			7.36		2.876		-153.2		62.50		27.8		19.09			
1525			7.34		2.963		-137.8		44.33		24.1		19.73			
1530			7.33		2.920		-134.6		38.83		23.0		19.87			
1535			7.33		2.883		-143.7		35.22		20.5		19.95			
1540			7.33		2.888		-141.5		34.49		20.9		19.93			
1545			7.33		2.883		-143.2		33.51		18.6		19.91			
1550			7.33		2.888		-147.8		42.16		19.4		19.96			

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; $\pm 3\%$ for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and $\pm 10\%$ for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SHEET 2 OF 2

SITE: RD 63165 CONSULTING FIRM: Apnm
 DATE: 05/26/21 FIELD PERSONNEL: K. Treacy
 WEATHER: 05 Sunny

MONITOR WELL #: MW-302 WELL DEPTH: _____ SCREENED/OPEN INTERVAL: _____
 WELL PERMIT #: _____ WELL DIAMETER: _____ inches

PID/FID READINGS (ppm): BACKGROUND: _____ PUMP INTAKE DEPTH: _____ ft below TOC
 BENEATH OUTER CAP: _____ DEPTH TO WATER BEFORE PUMP INSTALLATION: _____ ft below TOC
 BENEATH INNER CAP: _____ MAKE/MODEL OF PUMP: _____

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv) ^{OR}		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1555			7.33	NA	2.892	NA	142.4	NA	29.69	NA	18.6	NA	19.93	NA		
1600			7.33		2.875		-146.1		32.57		19.6		19.86			
1605			7.33		2.859		-147.3		30.25		17.1		19.73			
1610			7.33		2.891		-145.1		27.84		17.9		19.72			
1615			7.33		2.891		-145.2		30.31		17.6		19.70			
1620			7.33		2.900		-147.3		24.32		14.8		19.74			
1625	X		7.33		2.885		-143.8		28.97		16.3		19.62			

COMMENTS: Sampled @ 1625

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

**LOW FLOW SAMPLING
DATA SHEET**

SITE:	<u>HCC Site 63</u>	CONSULTING FIRM:	<u>Aptim Environmental & Infrastructure, LLC</u>
DATE:	<u>8/6/2021</u>	FIELD PERSONNEL:	<u>Treacy, Kerry</u>
WEATHER:	<u>sunny/80s</u>		

MONITOR WELL #:	<u>MW-202</u>	WELL DEPTH:	<u>11</u> feet
WELL PERMIT #:	<u>E201707274</u>	WELL DIAMETER:	<u>2</u> inches
		SCREENED/OPEN INTERVAL	<u>6</u> to <u>11</u> feet

PID/FID READINGS (ppm):			
BACKGROUND:	<u>0.0</u>	PUMP INTAKE DEPTH:	<u>7 ft below TOC</u>
BENEATH OUTER CAP:	<u>0.0</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION:	<u>4.32 ft below TOC</u>
BENEATH INNER CAP:	<u>0.0</u>	MAKE/MODEL OF PUMP:	<u>QED 1.75" Bladder</u>

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
835	X		10.27	NA	5.607	NA	-145.1	NA	2.00	NA	188	NA	21.84	NA	150	4.37
840	X		10.42	-0.15	4.841	13.7%	-234.8	89.70	2.30	-15.0%	277.9	-47.8%	21.59	1.1%	150	4.37
845	X		9.9	0.52	7.041	-45.4%	-229.5	-5.30	4.76	-107.0%	311.8	-12.2%	21.96	-1.7%	150	4.37
850	X		9.8	0.10	7.517	-6.8%	-236.2	6.70	4.79	-0.6%	562.8	-80.5%	21.44	2.4%	150	4.37
855	X		9.88	-0.08	7.094	5.6%	-254.3	18.10	3.90	18.6%	613.7	-9.0%	21.2	1.1%	150	4.37
900	X		10.76	-0.88	3.724	47.5%	-276.7	22.40	0.72	81.5%	307.2	49.9%	21.97	-3.6%	150	4.37
905	X		10.78	-0.02	3.722	0.1%	-282.9	6.20	0.58	19.4%	299	2.7%	21.93	0.2%	150	4.37
910	X		10.84	-0.06	3.747	-0.7%	-304.4	21.50	2.15	-270.7%	263.1	12.0%	22.4	-2.1%	150	4.37
915	X		10.78	0.06	3.871	-3.3%	-286.1	-18.30	5.43	-152.6%	246	6.5%	22.5	-0.4%	150	4.37
920	X		10.77	0.01	3.860	0.3%	-292.3	6.20	5.02	7.6%	337.4	-37.2%	22.2	1.3%	150	4.37
925	X		10.78	-0.01	3.755	2.7%	-314.3	22.00	3.75	25.3%	201.4	40.3%	21.84	1.6%	150	4.37
930	X		10.79	-0.01	3.706	1.3%	-323.8	9.50	2.73	27.2%	224.9	-11.7%	21.81	0.1%	150	4.37
935	X		10.79	0.00	3.674	0.9%	-314.2	-9.60	2.10	23.1%	168.8	24.9%	21.89	-0.4%	150	4.37
940	X		10.78	0.01	3.674	0.0%	-31.2	-283.00	1.85	11.9%	129	23.6%	21.81	0.4%	150	4.37
945	X		10.77	0.01	3.623	1.4%	-322.6	291.40	1.57	15.1%	138.7	-7.5%	21.98	-0.8%	150	4.37

**LOW FLOW SAMPLING
DATA SHEET**

SITE:	<u>HCC Site 63</u>	CONSULTING FIRM:	<u>Aptim Environmental & Infrastructure, LLC</u>
DATE:	<u>8/6/2021</u>	FIELD PERSONNEL:	<u>Treacy, Kerry</u>
WEATHER:	<u>sunny/80s</u>		

MONITOR WELL #:	<u>MW-202</u>	WELL DEPTH:	<u>11</u> feet
WELL PERMIT #:	<u>E201707274</u>	WELL DIAMETER:	<u>2</u> inches
		SCREENED/OPEN INTERVAL	<u>6</u> to <u>11</u> feet

PID/FID READINGS (ppm):			
BACKGROUND:	<u>0.0</u>	PUMP INTAKE DEPTH:	<u>7 ft below TOC</u>
BENEATH OUTER CAP:	<u>0.0</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION:	<u>4.32 ft below TOC</u>
BENEATH INNER CAP:	<u>0.0</u>	MAKE/MODEL OF PUMP:	<u>QED 1.75" Bladder</u>

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
950	X		10.77	0.00	6.622	-82.8%	-322.6	0.00	1.74	-10.8%	230.7	-66.3%	21.98	0.0%	150	4.37
955	X		10.77	0.00	3.610	45.5%	-322.9	0.30	1.71	1.7%	239.7	-3.9%	22	-0.1%	150	4.37
1000	X		10.76	0.01	3.579	0.9%	-334.9	12.00	0.92	46.2%	115.2	51.9%	22.089	-0.4%	150	4.37
1005	X		10.77	-0.01	3.562	0.5%	-336.1	1.20	0.88	4.3%	117.5	-2.0%	22.08	0.0%	150	4.37
1010	X		10.76	0.01	3.556	0.2%	-333.2	-2.90	0.63	28.4%	150	-27.7%	22.16	-0.4%	150	4.37
1015	X		10.75	0.01	3.555	0.0%	-330.6	-2.60	0.60	4.8%	144.1	3.9%	22.18	-0.1%	150	4.37
1020	X		10.76	-0.01	3.549	0.2%	-318.5	-12.10	0.52	13.3%	118.3	17.9%	22.19	0.0%	150	4.37
1025	X		10.76	0.00	3.548	0.0%	-311.4	-7.10	0.51	1.9%	142.3	-20.3%	22.2	0.0%	150	4.37
1030	X		10.74	0.02	3.540	0.2%	-246.1	-65.30	1.45	-184.3%	76.9	46.0%	21.96	1.1%	150	4.37
1035	X		10.73	0.01	3.538	0.1%	-261.4	15.30	0.72	50.3%	96.4	-25.4%	21.97	0.0%	150	4.37
1040	X		10.73	0.00	3.537	0.0%	-276.1	14.70	0.51	29.2%	93.7	2.8%	21.94	0.1%	150	4.37
1045	X		10.73	0.00	3.532	0.1%	-288.8	12.70	0.64	-25.5%	87.7	6.4%	21.94	0.0%	150	4.37
1050	X		10.75	-0.02	3.507	0.7%	-336.5	47.70	2.26	-253.1%	239.7	-173.3%	21.98	-0.2%	150	4.37
1055	X		10.76	-0.01	3.540	-0.9%	-337.4	0.90	2.15	4.9%	245.2	-2.3%	21.99	0.0%	150	4.37
1100	X		10.92	-0.16	3.174	10.3%	-327.5	-9.90	1.32	38.6%	172.5	29.6%	22.62	-2.9%	150	4.37

**LOW FLOW SAMPLING
DATA SHEET**

SITE:	<u>HCC Site 63</u>	CONSULTING FIRM:	<u>Aptim Environmental & Infrastructure, LLC</u>
DATE:	<u>8/6/2021</u>	FIELD PERSONNEL:	<u>Treacy, Kerry</u>
WEATHER:	<u>sunny/80s</u>		

MONITOR WELL #:	<u>MW-202</u>	WELL DEPTH:	<u>11</u> feet
WELL PERMIT #:	<u>E201707274</u>	WELL DIAMETER:	<u>2</u> inches
		SCREENED/OPEN INTERVAL	<u>6</u> to <u>11</u> feet

PID/FID READINGS (ppm):			
BACKGROUND:	<u>0.0</u>	PUMP INTAKE DEPTH:	<u>7 ft below TOC</u>
BENEATH OUTER CAP:	<u>0.0</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION:	<u>4.32 ft below TOC</u>
BENEATH INNER CAP:	<u>0.0</u>	MAKE/MODEL OF PUMP:	<u>QED 1.75" Bladder</u>

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1105	X		10.92	0.00	3.205	-1.0%	-326	-1.50	1.53	-15.9%	99	42.6%	22.6	0.1%	150	4.37
1110	X		10.72	0.20	3.516	-9.7%	-252.8	-73.20	1.93	-26.1%	268.3	-171.0%	22.66	-0.3%	150	4.37
1115	X		10.72	0.00	3.515	0.0%	-262.3	9.50	1.49	22.8%	339.4	-26.5%	22.63	0.1%	150	4.37
1120	X		10.71	0.01	3.527	-0.3%	-328	65.70	0.48	67.8%	69.1	79.6%	22.57	0.3%	150	4.37
1125	X		10.71	0.00	3.523	0.1%	-327.7	-0.30	0.39	18.8%	159.2	-130.4%	22.57	0.0%	150	4.37
1130	X		10.71	0.00	3.526	-0.1%	-327.3	-0.40	0.37	5.1%	291.3	-83.0%	22.54	0.1%	150	4.37
1135	X		10.71	0.00	3.529	-0.1%	-327	-0.30	0.71	-91.9%	124.5	57.3%	22.52	0.1%	150	4.37
1140	X		10.7	0.01	3.513	0.5%	-323	-4.00	1.10	-54.9%	254.4	-104.3%	22.58	-0.3%	150	4.37
1145	X		10.7	0.00	3.513	0.0%	-323	0.00	1.10	0.0%	707.4	-178.1%	22.57	0.0%	150	4.37
1150	X		10.69	0.01	3.515	-0.1%	-254.3	-68.70	0.15	86.4%	224.6	68.2%	22.66	-0.4%	150	4.37
1155	X		10.67	0.02	3.557	-1.2%	-261.9	7.60	3.23	-2053.3%	176	21.6%	24.7	-9.0%	150	4.37
1200	X		10.73	-0.06	3.436	3.4%	-300.9	39.00	2.65	18.0%	163.4	7.2%	22.77	7.8%	150	4.37
1205	X		10.74	-0.01	3.423	0.4%	-306.9	6.00	2.91	-9.8%	144.3	11.7%	22.73	0.2%	150	4.37
1210	X		10.81	-0.07	3.320	3.0%	-311.8	4.90	2.53	13.1%	107.1	25.8%	22.7	0.1%	150	4.37
1215	X		10.82	-0.01	3.332	-0.4%	-313.7	1.90	2.53	0.0%	98.1	8.4%	22.7	0.0%	150	4.37

**LOW FLOW SAMPLING
DATA SHEET**

SITE: <u>HCC Site 63</u>	CONSULTING FIRM: <u>Aptim Environmental & Infrastructure, LLC</u>	
DATE: <u>8/6/2021</u>	FIELD PERSONNEL: <u>Treacy, Kerry</u>	
WEATHER: <u>sunny/80s</u>		
MONITOR WELL #: <u>MW-202</u>	WELL DEPTH: <u>11</u> feet	SCREENED/OPEN INTERVAL <u>6</u> to <u>11</u> feet
WELL PERMIT #: <u>E201707274</u>	WELL DIAMETER: <u>2</u> inches	

PID/FID READINGS (ppm):
BACKGROUND: 0.0 **PUMP INTAKE DEPTH:** 7 ft below TOC
BENEATH OUTER CAP: 0.0 **DEPTH TO WATER BEFORE PUMP INSTALLATION:** 4.32 ft below TOC
BENEATH INNER CAP: 0.0 **MAKE/MODEL OF PUMP:** QED 1.75" Bladder

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1220	X		10.83	-0.01	3.281	1.5%	-311.8	-1.90	3.55	-40.3%	201.8	-105.7%	22.74	-0.2%	150	4.37
1225	X		10.83	0.00	3.349	-2.1%	-306.3	-5.50	2.73	23.1%	417.6	-106.9%	22.79	-0.2%	150	4.37
1230	X		10.77	0.06	3.367	-0.5%	-224.0	-82.30	5.05	-85.0%	156.3	62.6%	22.64	0.7%	150	4.37
1235	X		10.83	-0.06	3.366	0.0%	-245.0	21.00	2.96	41.4%	265	-69.5%	22.63	0.0%	150	4.37
1240	X		10.82	0.01	3.381	-0.4%	-301.2	56.20	1.90	35.8%	318.1	-20.0%	22.62	0.0%	150	4.37

COMMENTS:
 Sample collected at 1245

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH ±10 mv for Redox Potential
 ±3% for Specific Conductivity and Temperature ±10% for Dissolved Oxygen and Turbidity

**LOW FLOW SAMPLING
DATA SHEET**

SITE:	<u>HCC Site 63</u>	CONSULTING FIRM:	<u>Aptim Environmental & Infrastructure, LLC</u>
DATE:	<u>8/9/2021</u>	FIELD PERSONNEL:	<u>Treacy, Kerry</u>
WEATHER:	<u>sunny/80s</u>		

MONITOR WELL #:	<u>MW-301</u>	WELL DEPTH:	<u>10</u> feet
WELL PERMIT #:	<u>E201714023</u>	WELL DIAMETER:	<u>2</u> inches
		SCREENED/OPEN INTERVAL	<u>5</u> to <u>10</u> feet

PID/FID READINGS (ppm):			
BACKGROUND:	<u>0.0</u>	PUMP INTAKE DEPTH:	<u>6</u> ft below TOC
BENEATH OUTER CAP:	<u>0.0</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION:	<u>4.3</u> ft below TOC
BENEATH INNER CAP:	<u>0.0</u>	MAKE/MODEL OF PUMP:	<u>QED 1.75" Bladder</u>

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
915	X		8.33	NA	7.436	NA	203.40	NA	82.38	NA	24.5	NA	23.71	NA	150.00	4.30

See Comments

945	X		8.53	NA	6.799	NA	118.60	NA	50.96	NA	13.0	NA	23.38	NA	150.00	4.30
950	X		8.51	0.02	6.900	-1.5%	54.60	64.00	38.06	25.3%	10.6	18.5%	23.12	1.1%	150.00	4.30
955	X		8.56	-0.05	6.815	1.2%	-26.80	81.40	41.45	-8.9%	30.2	-184.9%	22.94	0.8%	150.00	4.30
1000	X		8.60	-0.04	7.776	-14.1%	-79.80	53.00	48.11	-16.1%	19.8	34.4%	22.84	0.4%	150.00	4.30
1005	X		8.61	-0.01	6.742	13.3%	-119.30	39.50	42.36	12.0%	17.8	10.1%	22.82	0.1%	150.00	4.30
1010	X		8.64	-0.03	6.634	1.6%	-147.40	28.10	31.05	26.7%	9.2	48.3%	22.88	-0.3%	150.00	4.30
1015	X		8.66	-0.02	6.588	0.7%	-166.10	18.70	48.11	-54.9%	5.3	42.4%	22.90	-0.1%	150.00	4.30
1020	X		8.68	-0.02	6.569	0.3%	-175.60	9.50	42.01	12.7%	8.8	-66.0%	22.93	-0.1%	150.00	4.30
1025	X		8.68	0.00	6.555	0.2%	-183.60	8.00	41.85	0.4%	5.0	43.2%	22.92	0.0%	150.00	4.30

**LOW FLOW SAMPLING
DATA SHEET**

SITE:	<u>HCC Site 63</u>	CONSULTING FIRM:	<u>Aptim Environmental & Infrastructure, LLC</u>
DATE:	<u>8/6/2021</u>	FIELD PERSONNEL:	<u>Treacy, Kerry</u>
WEATHER:	<u>sunny/80s</u>		

MONITOR WELL #:	<u>MW-302</u>	WELL DEPTH:	<u>10</u> feet
WELL PERMIT #:	<u>E201714024</u>	WELL DIAMETER:	<u>2</u> inches
		SCREENED/OPEN INTERVAL	<u>5</u> to <u>10</u> feet

PID/FID READINGS (ppm):			
BACKGROUND:	<u>0.0</u>	PUMP INTAKE DEPTH:	<u>6 ft below TOC</u>
BENEATH OUTER CAP:	<u>0.0</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION:	<u>4.09 ft below TOC</u>
BENEATH INNER CAP:	<u>0.0</u>	MAKE/MODEL OF PUMP:	<u>QED 1.75" Bladder</u>

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1330	X		6.95	NA	3.805	NA	-142.40	NA	8.60	NA	293.1	NA	26.68	NA	130	4.09
1335	X		6.96	-0.01	3.640	4.3%	-140.30	-2.10	6.93	19.4%	189.4	35.4%	26.52	0.6%	130	4.09
1340	X		6.97	-0.01	3.618	0.6%	-140.20	-0.10	6.72	3.0%	232.6	-22.8%	26.53	0.0%	130	4.09
1345	X		6.97	0.00	3.604	0.4%	-140.40	0.20	6.56	2.4%	204.4	12.1%	26.56	-0.1%	130	4.09
1350	X		6.98	-0.01	3.578	0.7%	-120.10	-20.30	5.39	17.8%	170.6	16.5%	26.57	0.0%	130	4.09
1355	X		6.98	0.00	3.574	0.1%	-124.30	4.20	5.27	2.2%	243.7	-42.8%	26.52	0.2%	130	4.09
1400	X		6.98	0.00	3.562	0.3%	-132.90	8.60	2.92	44.6%	272.5	-11.8%	26.40	0.5%	130	4.09
1405	X		6.99	-0.01	3.567	-0.1%	-133.10	0.20	2.80	4.1%	304.1	-11.6%	26.39	0.0%	130	4.09
1410	X		7.01	-0.02	3.463	2.9%	-108.30	-24.80	1.90	32.1%	229.2	24.6%	26.58	-0.7%	130	4.09
1415	X		7.01	0.00	3.413	1.4%	-105.60	-2.70	1.83	3.7%	242.6	-5.8%	26.54	0.2%	130	4.09
1420	X		6.99	0.02	3.423	-0.3%	-97.60	-8.00	1.71	6.6%	249.3	-2.8%	26.59	-0.2%	130	4.09
1425	X		6.98	0.01	3.429	-0.2%	-98.10	0.50	1.70	0.6%	248.0	0.5%	26.56	0.1%	130	4.09
1430	X		6.98	0.00	6.477	-88.9%	-96.60	-1.50	1.45	14.7%	258.0	-4.0%	26.36	0.8%	130	4.09
1435	X		6.98	0.00	3.481	46.3%	-96.10	-0.50	1.48	-2.1%	236.0	8.5%	26.38	-0.1%	130	4.09
1440	X		7.00	-0.02	3.522	-1.2%	-124.10	28.00	1.23	16.9%	267.0	-13.1%	26.47	-0.3%	130	4.09

**LOW FLOW SAMPLING
DATA SHEET**

SITE: HCC Site 63	CONSULTING FIRM: Aptim Environmental & Infrastructure, LLC
DATE: 8/6/2021	FIELD PERSONNEL: Treacy, Kerry
WEATHER: sunny/80s	

MONITOR WELL #: MW-302	WELL DEPTH: 10 feet	SCREENED/OPEN INTERVAL: 5 to 10 feet
WELL PERMIT #: E201714024	WELL DIAMETER: 2 inches	

PID/FID READINGS (ppm):			PUMP INTAKE DEPTH: 6 ft below TOC	
BACKGROUND: 0.0	BENEATH OUTER CAP: 0.0		DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.09 ft below TOC	
BENEATH INNER CAP: 0.0	MAKE/MODEL OF PUMP: QED 1.75" Bladder			

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		Pumping Rate (ml/min)	Depth to Water (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1445	X		7.12	-0.12	3.522	0.0%	-86.50	-37.60	1.38	-12.2%	3.0	98.9%	25.53	3.6%	130	4.09
1450	X		7.02	0.10	3.553	-0.9%	-103.20	16.70	1.79	-29.7%	6.0	-100.0%	26.53	-3.9%	130	4.09
1455	X		6.97	0.05	3.562	-0.3%	-144.80	41.60	2.63	-46.9%	3.8	36.7%	26.54	0.0%	130	4.09
1500	X		6.97	0.00	3.566	-0.1%	-145.80	1.00	3.00	-14.1%	2.9	23.7%	26.52	0.1%	130	4.09
1505	X		6.97	0.00	3.563	0.1%	-145.80	0.00	2.91	3.0%	4.7	-62.1%	26.53	0.0%	130	4.09
1510	X		6.97	0.00	3.573	-0.3%	-146.90	1.10	2.73	6.2%	8.9	-89.4%	26.54	0.0%	130	4.09
1515	X		6.96	0.01	3.579	-0.2%	-145.20	-1.70	2.68	1.8%	8.0	10.1%	26.51	0.1%	130	4.09
1520		X	6.96	0.00	3.581	-0.1%	-139.80	-5.40	2.66	0.7%	10.0	-25.0%	26.52	0.0%	130	4.09

COMMENTS:
 Removed and cleaned flow-through cell after 1440 readings
 Sample collected at 1520
 MW-302 is parent of MS/MSD

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
 ± 0.1 for pH ±10 mv for Redox Potential
 ±3% for Specific Conductivity and Temperature ±10% for Dissolved Oxygen and Turbidity