Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

LINDA CULPEPPER
Director

February 25, 2016

Swain Gas Co.
Duard Swain III
1851 Carolina Avenue
Washington, NC 27889

RE: Water Supply Well Sampling Results
28368 US 264 Belhaven, NC 27810
Pantego Dump
Site ID NONCD0000130
Belhaven, Beaufort County

Dear Mr. Swain:

The sample analytical results for a water sample collected on January 27, 2016 from your well located at the address referenced above are provided with this letter. The sample was submitted for laboratory analyses for volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs) and inorganic substances (Metals). The metal detections in the water sample as shown on the attached sheets are naturally occurring in North Carolina and are within the normal range for your area. The level detected should not result in any adverse health effects associated with any of the substances noted.

If you have any questions please contract me at (919) 707- 8155 or Cheryl Marks at (919) 707-8333.

Sincerely,

Katie Tatum

Katie Tatum, Environmental Specialist
Inactive Hazardous Sites Branch

Enclosures

SGS Accutest

Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
Method:	SW846 8260B BY SIM	Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z39548.D	1	02/01/16	MM	n/a	n/a	VZ1486
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.0010	0.00030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I36641.D	1	02/02/16	WV	n/a	n/a	VI952
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00042	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00024	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00046	mg/l	
78-93-3	2-Butanone (MEK)	ND	0.0050	0.0026	mg/l	
75-15-0	Carbon Disulfide	ND	0.0020	0.00023	mg/l	
56-23-5	Carbon Tetrachloride	ND	0.0010	0.00030	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00063	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00030	mg/l	
110-82-7	Cyclohexane	ND	0.0010	0.00026	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00026	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0050	0.00081	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0020	0.00033	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	0.00027	mg/l	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	0.00024	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	0.00039	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00028	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00022	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00031	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00034	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00026	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00025	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00025	mg/l	
76-13-1	Freon 113	ND	0.0010	0.00032	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00033	mg/l	
79-20-9	Methyl Acetate	ND	0.020	0.0050	mg/l	

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Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
74-83-9	Methyl Bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl Chloride	ND	0.0020	0.00050	mg/l	
108-87-2	Methylcyclohexane	ND	0.0010	0.00023	mg/l	
75-09-2	Methylene Chloride	ND	0.0050	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0014	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00024	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0020	0.00051	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0020	0.00050	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00037	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00027	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl Chloride	ND	0.0010	0.00031	mg/l	
	m,p-Xylene	ND	0.0020	0.00030	mg/l	
95-47-6	o-Xylene	ND	0.0010	0.00026	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

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Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
Method:	SW846 8270D SW846 3510C	Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X044444.D	1	02/04/16	MV	02/02/16	OP59207	SX1991
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN TCL (SOM01.1) List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.0095	0.0024	mg/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	0.0048	0.00071	mg/l	
95-57-8	2-Chlorophenol	ND	0.0048	0.00061	mg/l	
120-83-2	2,4-Dichlorophenol	ND	0.0048	0.00060	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	0.00066	mg/l	
51-28-5	2,4-Dinitrophenol	ND	0.024	0.0048	mg/l	
534-52-1	4,6-Dinitro-o-cresol	ND	0.0095	0.0019	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	0.00055	mg/l	
	3&4-Methylphenol	ND	0.0048	0.0010	mg/l	
88-75-5	2-Nitrophenol	ND	0.0048	0.00059	mg/l	
100-02-7	4-Nitrophenol	ND	0.024	0.0048	mg/l	
87-86-5	Pentachlorophenol	ND	0.024	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	0.00048	mg/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0048	0.00086	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	0.0048	0.00095	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	0.00082	mg/l	
83-32-9	Acenaphthene	ND	0.0048	0.00053	mg/l	
208-96-8	Acenaphthylene	ND	0.0048	0.00055	mg/l	
98-86-2	Acetophenone	ND	0.0048	0.00068	mg/l	
120-12-7	Anthracene	ND	0.0048	0.00058	mg/l	
1912-24-9	Atrazine	ND	0.0048	0.00060	mg/l	
100-52-7	Benzaldehyde	ND	0.024	0.0048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0048	0.00048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0048	0.00048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0048	0.00051	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0048	0.00048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0048	0.00060	mg/l	
92-52-4	1,1'-Biphenyl	ND	0.0048	0.00048	mg/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	0.0048	0.00048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	0.00095	mg/l	
86-74-8	Carbazole	ND	0.0048	0.00054	mg/l	
106-47-8	4-Chloroaniline	ND	0.0048	0.00068	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
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Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
Method:	SW846 8270D SW846 3510C	Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

ABN TCL (SOM01.1) List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	0.0048	0.00065	mg/l	
111-44-4	bis(2-Chloroethyl)ether	ND	0.0048	0.00066	mg/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.0048	0.00065	mg/l	
91-58-7	2-Chloronaphthalene	ND	0.0048	0.00048	mg/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	0.0048	0.00055	mg/l	
218-01-9	Chrysene	ND	0.0048	0.00050	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0048	0.00072	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	0.00064	mg/l	
91-94-1	3,3'-Dichlorobenzidine	ND	0.0048	0.00048	mg/l	
84-66-2	Diethyl Phthalate	ND	0.0048	0.00095	mg/l	
131-11-3	Dimethyl Phthalate	ND	0.0048	0.00095	mg/l	
84-74-2	Di-n-butyl Phthalate	ND	0.0048	0.00095	mg/l	
117-84-0	Di-n-octyl Phthalate	ND	0.0048	0.00095	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	0.0048	0.00060	mg/l	
606-20-2	2,6-Dinitrotoluene	ND	0.0048	0.00056	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	0.00095	mg/l	
206-44-0	Fluoranthene	ND	0.0048	0.00048	mg/l	
86-73-7	Fluorene	ND	0.0048	0.00062	mg/l	
118-74-1	Hexachlorobenzene	ND	0.0048	0.00052	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0048	0.00049	mg/l	
77-47-4	Hexachlorocyclopentadiene	ND	0.0048	0.00095	mg/l	
67-72-1	Hexachloroethane	ND	0.0048	0.00049	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0048	0.00048	mg/l	
78-59-1	Isophorone	ND	0.0048	0.00064	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0048	0.00053	mg/l	
91-20-3	Naphthalene	ND	0.0048	0.00048	mg/l	
88-74-4	2-Nitroaniline	ND	0.0048	0.00067	mg/l	
99-09-2	3-Nitroaniline	ND	0.0048	0.00071	mg/l	
100-01-6	4-Nitroaniline	ND	0.0048	0.00068	mg/l	
98-95-3	Nitrobenzene	ND	0.0048	0.00062	mg/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	0.0048	0.00055	mg/l	
86-30-6	N-Nitrosodiphenylamine	ND	0.0048	0.00066	mg/l	
85-01-8	Phenanthrene	ND	0.0048	0.00057	mg/l	
129-00-0	Pyrene	ND	0.0048	0.00053	mg/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.0048	0.00048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-67%
4165-62-2	Phenol-d5	26%		10-50%

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
Method:	SW846 8270D SW846 3510C	Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

ABN TCL (SOM01.1) List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

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Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
		Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.00019 J	0.0020	0.000056	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Arsenic [a]	0.000096 J	0.0010	0.000048	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Beryllium [a]	ND	0.00050	0.000074	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Cadmium [a]	0.00016 J	0.00050	0.000060	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Chromium [a]	0.00015 J	0.0040	0.000083	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Copper [a]	0.00035 J	0.0040	0.00013	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Iron [a]	0.833	0.050	0.00065	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Lead [a]	0.00037 J	0.00050	0.000066	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Manganese [a]	0.0038	0.0010	0.00012	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Mercury	ND	0.00050	0.000030	mg/l	1	02/02/16	02/02/16	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel [a]	ND	0.0040	0.000097	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Selenium [a]	0.000084 J	0.0010	0.000076	mg/l	1	02/02/16	02/04/16	ANJ	EPA 200.8 [3]	EPA 200.8 [5]
Silver [a]	ND	0.0020	0.000019	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Thallium [a]	0.000060 J	0.00050	0.000026	mg/l	1	02/02/16	02/03/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Zinc [a]	0.754	0.020	0.0039	mg/l	2	02/02/16	02/04/16	ANJ	EPA 200.8 [3]	EPA 200.8 [5]

(1) Instrument QC Batch: MA12928
(2) Instrument QC Batch: N:MA38666
(3) Instrument QC Batch: N:MA38676
(4) Prep QC Batch: MP29928
(5) Prep QC Batch: N:MP91828

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result >= MDL but < RL

SGS Accutest

Report of Analysis

Client Sample ID:	BELHAVEN		
Lab Sample ID:	FA31033-2	Date Sampled:	01/27/16
Matrix:	AQ - Water	Date Received:	01/28/16
		Percent Solids:	n/a
Project:	Pantego Dump; Belhaven, NC		

4.2

4

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	0.70	0.10	0.030	mg/l	1	02/02/16 17:19	JK	EPA 350.1
Nitrogen, Nitrate	ND	0.10	0.050	mg/l	1	01/28/16 16:52	DM	EPA 300/SW846 9056A
Sulfate	ND	2.0	0.60	mg/l	1	01/28/16 16:52	DM	EPA 300/SW846 9056A

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MDL = Method Detection Limit

ND = Not detected
J = Indicates a result >= MDL but < RL