

From: [Kathleen McDaniel](#)
To: [Beggs, Tauren R - DNR](#)
Cc: [Karen Dorow](#)
Subject: FW: Newton Pit - Thunder Ridge Potable Well Results
Date: Monday, July 03, 2017 4:09:23 PM
Attachments: [4005 Thunder Ridge 062217 sample.pdf](#)
[4010 Thunder Ridge 062217 sample.pdf](#)

See attached well testing reports.

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From: Henderson, Dave [mailto:Dave.Henderson@aecom.com]
Sent: Friday, June 30, 2017 12:41 PM
To: GravelPit
Subject: Newton Pit - Thunder Ridge Potable Well Results

Pitters,

Attached are the 2nd round of potable well testing results for the 4005 and 4010 Thunder Ridge replacement wells.

All no-detect.

The results are ready to be provided to WDNR and the home owners.

Thanks
dsh

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Project Name NEWTON PIT
 Project # 60135471.34

Invoice # E33160

Lab Code 5033160B
 Sample ID 4005 RAW
 Sample Matrix Water
 Sample Date 6/22/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		6/29/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		6/29/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		6/29/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		6/29/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		6/29/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		6/29/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		6/29/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		6/29/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		6/29/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		6/29/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		6/29/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		6/29/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		6/29/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		6/29/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		6/29/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		6/29/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		6/29/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		6/29/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		6/29/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		6/29/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		6/29/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		6/29/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		6/29/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		6/29/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		6/29/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		6/29/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		6/29/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		6/29/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		6/29/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/29/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/29/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/29/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/29/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/29/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/29/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/29/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/29/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/29/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/29/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/29/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/29/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/29/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/29/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/29/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/29/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/29/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/29/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/29/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/29/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/29/2017	CJR	1

Project Name NEWTON PIT
Project # 60135471.34

Invoice # E33160

Lab Code 5033160B
Sample ID 4005 RAW
Sample Matrix Water
Sample Date 6/22/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B	6/29/2017	6/29/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B	6/29/2017	6/29/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B	6/29/2017	6/29/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Michael J. Steel

Synergy Environmental Lab, INC.

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Report Date 30-Jun-17

Project Name NEWTON PIT
Project # 60135471.34
Lab Code 5033160A
Sample ID 4010 RAW
Sample Matrix Water
Sample Date 6/22/2017

Invoice # E33160

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B	6/29/2017	6/29/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B	6/29/2017	6/29/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B	6/29/2017	6/29/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B	6/29/2017	6/29/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B	6/29/2017	6/29/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B	6/29/2017	6/29/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B	6/29/2017	6/29/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B	6/29/2017	6/29/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B	6/29/2017	6/29/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B	6/29/2017	6/29/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B	6/29/2017	6/29/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B	6/29/2017	6/29/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B	6/29/2017	6/29/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B	6/29/2017	6/29/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B	6/29/2017	6/29/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B	6/29/2017	6/29/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B	6/29/2017	6/29/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B	6/29/2017	6/29/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B	6/29/2017	6/29/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B	6/29/2017	6/29/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B	6/29/2017	6/29/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B	6/29/2017	6/29/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B	6/29/2017	6/29/2017	CJR	1

Project Name NEWTON PIT
Project # 60135471.34

Invoice # E33160

Lab Code 5033160A
Sample ID 4010 RAW
Sample Matrix Water
Sample Date 6/22/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B	6/29/2017	6/29/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B	6/29/2017	6/29/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B	6/29/2017	6/29/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B	6/29/2017	6/29/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B	6/29/2017	6/29/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B	6/29/2017	6/29/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B	6/29/2017	6/29/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B	6/29/2017	6/29/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B	6/29/2017	6/29/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B	6/29/2017	6/29/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B	6/29/2017	6/29/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B	6/29/2017	6/29/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B	6/29/2017	6/29/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B	6/29/2017	6/29/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B	6/29/2017	6/29/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B	6/29/2017	6/29/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B	6/29/2017	6/29/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B	6/29/2017	6/29/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B	6/29/2017	6/29/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B	6/29/2017	6/29/2017	CJR	1