

Morris, John R.

From: Walker Wrenn <walker@locklearconsulting.com>
Sent: Monday, November 02, 2015 11:12 AM
To: Morris, John R.
Cc: Morgan, Steve; Tafuni, Steven; John Locklear
Subject: RE: MW 15B and 16B [Enterprise CIII landfill, permit #177982-020-SO/T3, facility #87895]
Attachments: 87895_201509_REVISED Groundwater Data.pdf

Mr. Morris,

Please see the attached REVISED summary table for water levels measured during Sep. 2015 and REVISED Floridan aquifer contour map for Sep. 2015 that includes the recalculated elevations for wells MW-15B and MW-16B. The 10-07-2015 survey is included in the attachment. The final page of the attachment describes that the TOCs were too high to measure elevations so additional pipe was cut by the surveyor. As always, please don't hesitate to contact me if you have any questions.

Thank you,

Walker Wrenn
Professional Geologist



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From: Morris, John R. [mailto:John.R.Morris@dep.state.fl.us]
Sent: Wednesday, October 28, 2015 10:52 AM
To: Walker Wrenn <walker@locklearconsulting.com>
Cc: Morgan, Steve <Steve.Morgan@dep.state.fl.us>; Tafuni, Steven <Steven.Tafuni@dep.state.fl.us>; John Locklear <john@locklearconsulting.com>
Subject: FW: MW 15B and 16B [Enterprise CIII landfill, permit #177982-020-SO/T3, facility #87895]

Walker:

Good morning. I'm reviewing the results of the Sep. 2015 sampling event conducted at Enterprise Class III Landfill that were transmitted via your letter dated Oct. 19, 2015. The ground water elevations reported for wells MW-15B and MW-16B appear to considerably higher than expected. An excerpt from the ground water elevation table for the Sep. 2015 event follows:

MW-11	104.45	29.90	74.55	NS	NS
MW-11B	106.11	32.04	74.07	NS	NS
MW-12A	121.43	47.59	73.84	NS	NS
MW-12B	121.84	47.48	74.36	NS	NS
MW-15B	147.87	43.05	104.82	43.05	104.82
MW-16B	138.01	35.42	102.59	35.42	102.59
MW-17B	87.21	12.91	74.30	12.91	74.30
P-4	84.55	10.95	73.60	NS	NS
P-6	94.16	28.86	65.30	NS	NS
P-8	133.94	61.51	72.43	NS	NS
P-10	132.60	58.56	74.04	NS	NS
P-11	150.76	54.55	96.21	NS	NS
SUPPLY WELL	NM	NM	NM	NS	NS

The e-mail chain below initiated by John Arnold during June 2015 requested approval to cut the riser pipe of wells MW-15B and MW-16B as the surrounding area continues to be excavated. As highlighted in my message below, I requested the wells be re-surveyed to establish new measuring point elevations. Please submit a copy of the survey that provides the new elevations for these wells. Please also submit a revised summary table for water levels measured during Sep. 2015 and a revised Floridan aquifer contour map for Sep. 2015 that includes the recalculated elevations for wells MW-15B and MW-16B.

Your assistance is appreciated. Please contact me if you have questions about this message.

John



John R. Morris, P.G.

Permitting and Waste Cleanup Program
Florida Department of Environmental Protection, Southwest District
13051 N Telecom Parkway, Temple Terrace, FL 33637
Main office: 813-470-5700 Direct line: 813-470-5751
E-mail: john.r.morris@dep.state.fl.us

From: Morris, John R.

Sent: Friday, June 19, 2015 8:19 AM

To: 'John Arnold' <john.phillip.arnold@gmail.com>

Cc: Morgan, Steve <Steve.Morgan@dep.state.fl.us>

Subject: RE: MW 15B and 16B [Enterprise CIII landfill, permit #177982-020-SO/T3, facility #87895]

John A.:

Good morning. The approach you described to progressively cut the riser pipes of wells MW-15B and MW-16B as excavation in Cell 7 continues seems reasonable. Re-surveying the wells to establish the elevation of the measuring points will be needed to obtain a ground water elevation at the time of sampling.

Please note the following requirements in Permit #177982-020-SO/T3, Appendix 3, Condition #3:

All wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all wells and piezometers locked to minimize unauthorized access.

To minimize unauthorized access will you be re-installing a protective casing on wells MW-15B and MW-16B? If protective casings are not proposed to be re-installed, the wells should be equipped with expansion caps that can be locked.

Please contact me if you have questions about this message.

John M.

John R. Morris, P.G.
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From: John Arnold [<mailto:john.phillip.arnold@gmail.com>]

Sent: Wednesday, June 17, 2015 11:27 AM

To: Morris, John R.

Subject: MW 15B and 16B

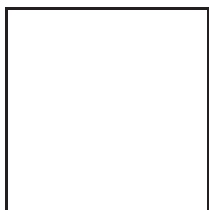
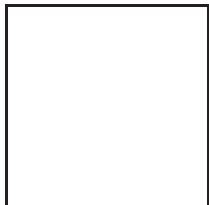
John,

The location of MW 15B and 16B (west side of Cell 6) are in an area that is being excavated. We have neatly excavated around the wells by about 20' (vertically) and I'd like to lower them as we continue to excavate. I would propose cutting them off with a hand saw and replacing the cap. We keep them flagged, but the crew is now familiar with protecting them. Bobby Simmons can resurvey the top of casing when we resample. Please let me know if this is acceptable, or if you need additional information. I expect that we will request abandoning these wells and putting in new wells to the west after the next one or two sampling events.

Thanks

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John Arnold, P.E.
Ph. (813) 477-1719



REVISED GROUNDWATER ELEVATION DATA

Enterprise Class III Landfill and Recycling Facility 2015 - Second Semiannual Compliance Monitoring Event

WELL NAME	TOP OF CASING	CONTOUR MAP		TIME OF SAMPLING	
		DEPTH TO WATER	GROUDWATER ELEVATION	DEPTH TO WATER	GROUDWATER ELEVATION
	(NGVD,FT)	(FT)	(NGVD,FT)	(FT)	(NGVD,FT)
MW-1A	173.77	dry	NA	NA	NA
BW-1A	122.50	dry	NA	dry	NA
MW-1B	174.11	100.14	73.97	NS	NS
BW-1B	122.82	48.75	74.07	48.79	74.03
MW-3	85.39	11.24	74.15	11.24	74.15
MW-3B	84.80	10.66	74.14	10.66	74.14
MW-4	100.59	18.35	82.24	18.38	82.21
MW-4B	100.87	26.70	74.17	26.72	74.15
MW-5A	86.74	10.28	76.46	10.28	76.46
MW-5B	85.70	11.64	74.06	11.64	74.06
MW-6	88.65	13.28	75.37	13.45	75.20
MW-6B	89.10	14.91	74.19	14.95	74.15
MW-7A	100.72	26.14	74.58	26.14	74.58
MW-7BR	103.27	29.14	74.13	29.14	74.13
MW-8	100.10	dry	NA	dry	NA
MW-8B	108.52	34.37	74.15	34.37	74.15
MW-9	108.00	dry	NA	dry	NA
MW-9B	109.75	35.42	74.33	35.42	74.33
MW-10	111.62	dry	NA	dry	NA
MW-10B	110.00	35.70	74.30	35.70	74.30
MW-11	104.45	29.90	74.55	NS	NS
MW-11B	106.11	32.04	74.07	NS	NS
MW-12A	121.43	47.59	73.84	NS	NS
MW-12B	121.84	47.48	74.36	NS	NS
MW-15B	147.87 -117.22	43.05	104.82 74.17	43.05	104.82 74.17
MW-16B	138.01 -109.65	35.42	102.59 -74.23	35.42	102.59 -74.23
MW-17B	87.21	12.91	74.30	12.91	74.30
P-4	84.55	10.95	73.60	NS	NS
P-6	94.16	28.86	65.30	NS	NS
P-8	133.94	61.51	72.43	NS	NS
P-10	132.60	58.56	74.04	NS	NS
P-11	150.76	54.55	96.21	NS	NS
SUPPLY WELL	NM	NM	NM	NS	NS

NS = Not sampled
 NM = Not measured
 NA = Not Available

MW 16-B Groundwater Monitoring Well

100.00	Datum Mark on Well Surveyed by Simmons and Beall (10/7/15)
9.65	Length of Pipe Removed (sticking up from survey datum...too high to survey TOC)
109.65	Computed Top of Casing at Sampling Event (2nd 2015)
35.42	Depth to Water at Sampling Event (2nd 2015)
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74.23	Groundwater elevation

MW 15-B Groundwater Monitoring Well

103.97	Datum Mark on Well Surveyed by Simmons and Beall (10/7/15)
13.25	Length of Pipe Removed (sticking up from survey datum...too high to survey TOC)
117.22	Computed Top of Casing at Sampling Event (2nd 2015)
43.05	Depth to Water at Sampling Event (2nd 2015)
<hr/>	
74.17	Groundwater elevation