

☐ Accepted

☐ Disapproved

Radionuclide Report

I. PWS INFOR	MAT	ION:	Please refe	er to vour [DEP Wa	ter Qu	ıalitv San	nplina	Schedul	le (WC	OSS) to I	nelp comr	olete 1	this form			
PWS ID #:		City / Town:				GROVELAND											
PWS Name:			Groveland Water Department							PWS Class:			COM ⊠ NTNC □ TNC □				
DEP LOCATION (LOC) ID#	DEP Location Name						Samp			ole Information			Date Collected		Collected By		
10001	GP WELL #1						☐ (M)ultiple ☐ (S)ingle				(R)aw			5/2015	J. K	J. KOTULI	
Routine or Original, Resubmitted or							If Resubmitted Report, list below:							-			
Special Sample Confirmation Report						(1) Reason for Resubmission (2) Collection Date of Or							riginal Sample				
☐ RS ☐ SS ☐ Original ☐ Resubmitted ☐ Confirmation																	
SAMPLE NOTES – (Such as, if a Manifold/Multiple sample, list any sources that were on-line line during sample collection).																	
II. ANALYTICAL LABORATORY INFORMATION:																	
Primary Lab M			MA026	ame:	Biomarine Inc. Subcontracted? (Y/N)									(Y/N) Y			
Was this sa	mnlo		COMPOSIT	E SAMPLE N	NOTES											` '	
composited by		ıb?	List the com entry point.	posited sourc	e by DE	P Sourc	e Code (X	XXXXX	X-XXX) ar	nd date	s collected	d, up to four	conse	cutive quart	erly sa	mples per single	
LAB SAMPLE NOTES																	
				<u> </u>	Γ		ſ				_						
Contamin	Contaminant		RESULT	Std Dev (+/-)	MCL	MDL	. L	.ab Met	hod		Date nalyzed	Lab Sample		Analysis MA Cer			
GROSS ALPHA (pCi/L)			-0.172	+/-0.980		2.96	6	900.0	.0		/26/15	6/15 E50866 6025				57 PACE	
URANIUM – activity (pCi/L)																	
Report Uranium re	sult an	nd MDL	in (pCi/L) as	analyzed, oth	nerwise u	se form	nula to calc	ulate [l	Jranium μο	g/L x 0.	.67 = Uran	ium pCi/L].	Check	k this box if I	result is	s calculated	
ADJUSTED GROS (pCi/L)	ADJUSTED GROSS ALPHA (pCi/L) The MCL for Adjusted Gross Alpha (Gross Alpha minus Uranium) is 15 pCi/L. A gross alpha measurement may be substituted for the uranium analysis, if the gross alpha result is equal to or less than 15 pCi/L. If gross alpha exceeds 15 pCi/L, uranium must also be measured.																
URANIUM – mass (μg/L)					30												
Report Uranium re	sult an	nd MDL	∟ _ in (μg/L) as a	ınalyzed, oth	erwise us	e formi	ula to calcu	ılate [U	ranium pC	i/L / 0.6	67 = Urani	um μg/L]. (Check	this box if re	sult is	calculated	
RADIUM-226 (pCi/L)		0.387		+/-0.536		0.91	0 E	EPA 90	PA 903.0		9/1/15 E5086				57	PACE	
RADIUM-228 (pCi/L)			0.0519	+/-0.422		0.95	9 E	EPA 904.0		9.	9/1/15 E50866		9-1- M-PA1457		57	7 PACE	
COMBINED RADIUM (pCi/L)		l	0.44		5	A gro	oss alpha measurement		ment may	_II (Radium-226 plus Radium-22 / be substituted for the radium							
GROSS BETA					*				g-								
(pCi/L) *The MCL for gross beta is 4 mrem/year. If gross beta exceeds 50 pCi/L, analysis of the sample for Photon Activity shall be performed to identify the major radioactive constituents. Gross Beta testing is optional, unless specifically required by DEP.																	
RADON (pCi/L)	- 1		, .	-1	**												
**Radon testing is optional, unless specifically required by DEP. The MA guideline for Radon is 10,000 pCi/L. The EPA has proposed a radon MCL of 300 – 4000 pCi/L.																	
I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge. Primary Lab Director Signature: Date: 9/8/15																	
	accurate and complete to the best extent of my knowledge. If not submitting these results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.																
DED DEVESTS				this report	<u>or</u> no la	iter tha			the end o	of the I	reporting	period, wi	hichev	er is soon	er.	 	
DEP REVIEW STATUS (I			itial & Date) Disappr	oved			Revie Comme										



Radionuclide Report

I. PWS INFORMATIO	N: Pleas	e refer to yo	ur DEP Wate	er Qual	ity Samp	oling Schedule (V	VQSS)	to help compl	ete this	form					
PWS ID #:						City / T	own:	Biomarine, MA							
PWS Name:	Biomarin	e - DW - DE	Р			PWS Class:			ss:	СОМ		NTNC		TNC	
DEP LOCATION (LOC) ID#		С	DEP Location Na	ame		Sample Information *Please note all samples are considered representative of finished water if there is no treatment applied				Date Collected			Collected By		
60)255					□ (M) ☑ (S)i	ultiple	☐ (R)aw ☑ (F)inishe	0,0,2010						
Routine or			Resumitted or			If Resubmitted, list below									
Special Sample Confirmation Report ☑ RS □ SS ☑ Original □ Resubmitted □ Confirmation						(1) Reason for Resubmission (2) Collection Date of Original Sa									
SAMPLE NOTES - (Such						<u> </u>		<u> </u>	70110011011						
I. ANALYTICAL LAE	BORATOF	RY INFORMA	TION		_										
Primary Lab MA Cei	rt. #: M	I-CT008	Primary L	ab Nam	e: Mic	robac Laborato	ries, Ir	nc.		Su	ıbcontra	act? (Y/	N)	Υ	
Was this Sample by the La	•		OSITE SAMPLE		FP Source	Code (XXXXX-XXX)	and date	es collected up to fo	our conse	cutive quart	erly sampl	es ner sir	nale		
•		entry p	•	uroc by b	21 000100	, oode (7000017001)	and date	oo oonootoa, ap to k	our conce	outivo quart	ony oampi	00 pci oii	igio		
LAR SAMPLE NOTES		<u> </u>													
LAB SAMPLE NOTES															
Contaminant		RESULT	Std Dev (+/-)	MCL	MDL	Lab Method				Lab	Analysi MA C		_	sis Lab ame	
GROSS ALPHA (pCi/L)			+/-0.980		2.96	900.0		08/26/2015	E508669-1		M-PA145				
URANIUM - activity (pCi/L)															
Report Uranium resuld ar	nd MDL in (p	Ci/L) as analyze	ed, otherwise us	e formula	to calculat	te [Uranium µg/ L X 0.6	67 = Ura	nium pCi/L]. Check	this box	if result calc	ulated				
ADJUSTED GROSS A (pCi/L)	ALPHA				A gross a	for Adjusted Gross Allpha measurement ma or less than 15 pCi/L.	y be su	bmitted for the uran	ium analy	sis, if the gr					
URANIUM - mass															
(μg/L)															
Report Uranium resuld ar	nd MDL in (µ	ıg/L) as analyze	d, otherwise use	formula	to calculate	e [Uranium pCi/ L / 0.6	7 = Uran	nium µg/L]. Check t	his box if	result calcul	lated				
RADIUM-226 (pCi/L)		0.387	+/-0.536		0.910	EPA 903.0		09/01/2015	E5086	669-1	M-PA145	57	Pace		
RADIUM-228 (pCi/L)		0.0519	+/-0.422		0.959	EPA 904.0		09/01/2015	E5086	669-1	M-PA145	57	Pace		
COMBINED RADIUM (pCi/L)		0.44		5	A gross a	for Combined Radiun lpha measurement ma or leass than 5 pCi/L.	y be su	bmitted for the radiu	um -226 a	nalysis, if th			is		
GROSS BETA (pCi/L)															
*The MCL for gross beta constituents. Gross Beta						sample for Photon Act	tivity sha	all be performed to in	dentify the	e major radi	oactive				
RADON (pCi/L)															
**Radon testing is option.	, unless spec	cifically required	by DEP. The N	//A guidel	ne for Rad	on is 10,000 pCi/L. T	he EPA I	has proposed a rad	on MCL o	f 300 - 400	pCi/L.				
I certii authorized to fill out th		enalties of law			8	Prin	nary L	ab Director Sig	ınature	/	mated.	<u>-</u> /-			
true, accurate and co									Date	9/4/20					

If not submitting results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS	(Initial & Date)	Review	□ WQTS
☐ Accepted	☐ Disapproved	Comments	Data Entered