神奈川県平塚市における地下水モニタリング(令和6年冬季~秋季)の結果について

1. 地下水モニタリングの概要

神奈川県平塚市においては、平成 16 年にA事案区域である旧相模海軍工廠化学実験部跡地近傍の井戸水から有機ヒ素化合物が検出されたことを受け、要調査地域を設定し、地下水の飲用自粛を呼びかけるとともに、当該地域において、有機ヒ素化合物が検出された井戸を中心として、地下水モニタリングを実施している。

同地域における要調査地域の範囲については、平成 23 年度に見直しを実施しており、現在 は要調査地域内及びその外縁部周辺の計 16 箇所で地下水モニタリングを実施している。

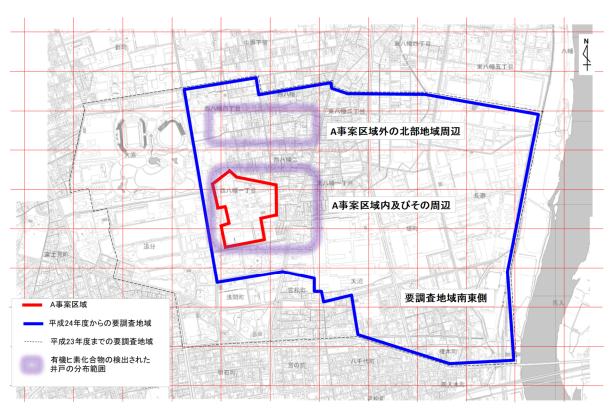


図1 平塚地区における要調査地域範囲及び外縁部周辺位置関係

2. 要調査地域における地下水の流れ及び地下水モニタリング結果について

平成16年以降、要調査地域における地下水の流れの方向に大きな変化はなく、地下水は西北西から東南東に向かって流れている。また、有機ヒ素化合物が検出された井戸の分布範囲は、A事案区域内から東方向に広がる範囲(A事案区域内及びその周辺)とA事案区域外の北部地域から東南東方向に広がる範囲(A事案区域外の北部地域周辺)の二つに広がっている(図1参照)。

令和6年冬季~秋季に実施した地下水モニタリングは、A事案区域内及びその周辺で4箇所、 A事案区域外の北部地域周辺で4箇所、要調査地域南東側で1箇所、要調査地域外縁部周辺で 7箇所である。分析の結果、要調査地域外縁部周辺では有機ヒ素化合物は検出されていない。 なお、この資料中、検出とは、有機ヒ素化合物の各分析値が0.001mg-As/L以上をいう。

(1)地下水の流れ

令和 6 年冬季~秋季の地下水位標高は、要調査地域の北西部では T.P. +約 5.0~5.9m、東部では T.P. +約 2.1~2.5mであった。地表面から地下水面までの深さは、A事案区域内及びA事案区域外の北部地域のいずれも、2.4~6.2m程度であった。地下水位は降雨による変動はあるものの、変動幅は小さく、高水位時期と低水位時期との水位差は概ね 0.5m程度である。要調査地域における地下水流向に大きな変化はなく、令和 6 年も地下水は西北西から東南東に向かって流下している。(図 2-1、図 2-2、図 2-3、図 2-4 参照)

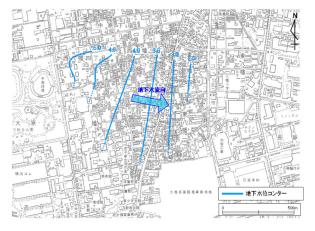
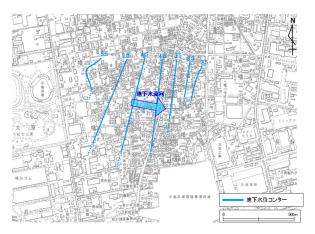


図2-1 地下水の流れと地下水位等高線 冬季:令和6年2月測定 (地下水位等高線の単位:標高T.P.+m)



型2-3 地下水の流れと地下水位等高線 夏季:令和6年8月測定 (地下水位等高線の単位:標高 T.P.+m)

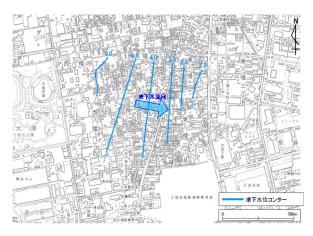


図2-2 地下水の流れと地下水位等高線 春季: 令和6年5月測定 (地下水位等高線の単位:標高T.P.+m)

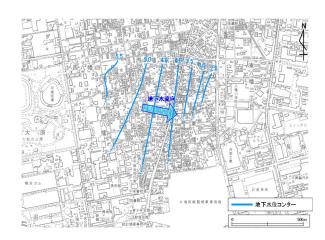


図2-4 地下水の流れと地下水位等高線 秋季:令和6年11月測定 (地下水位等高線の単位:標高T.P.+m)

(2) 有機ヒ素化合物の分析結果

ア 全体 (要調査地域)

令和6年冬季~秋季にモニタリングを行っている要調査地域外縁周辺部の7箇所において有機ヒ素化合物は検出されておらず、要調査地域の外側への地下水汚染の拡大は確認されていない。

要調査地域内において有機ヒ素化合物の検出が確認された地点は、DPAA(ジフェニルアルシン酸)、PAA(フェニルアルソン酸)及びPMAA(フェニルメチルアルシン酸)は 1 箇所、PAA 及び PMAA は 2 箇所、PAA は 2 箇所の井戸で検出され、その濃度は $0.001 \sim 0.021$ mg-As/Lであった。

イ A事案区域内及びその周辺

令和 6 年冬季~秋季においてモニタリングを行っている 4 箇所において、有機ヒ素化合物の濃度が 0.01mg-As/L を超過した井戸は無い。本区域では、有機ヒ素化合物のうち PAA を主体とした汚染となっており、その推移は緩やかな低下傾向にある。

なお、本区域内で平成 16 年以降有機ヒ素化合物の濃度が 0.01mg-As/L を超えたモニタリング井戸は 3 箇所である。また、要調査地域を見直した平成 24 年春季以降の最大濃度は、0.027mg-As/L (平成 24 年冬季、春季) である。

ウ A事案区域外の北部地域周辺

令和 6 年冬季~秋季においてモニタリングを行っている 4 箇所のうち、有機ヒ素化合物 の濃度が 0.01mg-As/L を超過した箇所は、令和 6 年冬季 2 箇所、春季 1 箇所である。その 濃度は 0.015~0.021mg-As/L の範囲である。

本区域では、有機ヒ素化合物のうち PMAA 及び PAA による汚染となっており、全体として みると、有機ヒ素化合物の濃度はほぼ横ばい傾向にある。

なお、本区域内で平成 16 年以降有機ヒ素化合物の濃度が 0.01mg-As/L を超えたモニタリング井戸は 5 箇所である。また、要調査地域を見直した平成 24 年春季以降の最大濃度は 0.150mg-As/L (令和 5 年夏季)である。

工 要調査地域南東側

要調査地域南東側では、令和6年冬季~秋季のモニタリングにおいては、有機ヒ素化合物は検出されていない。

A事案区域内及びその周辺(1)

B-23

+35 alc 1	,	116		H17			Н	118			Н	19			Н	20			H	21			H	22			H	23			Н	24			H	25	
採水	5/31	10/15	1/26	4/28	7/11	1/26	5/26	8/30	11/22	2/27	5/24	8/27	11/27	2/28	5/27	8/29	11/27	2/25	5/28	8/25	11/25	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPA	A N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_	_	_
PAA	0.004	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_	_	_
PMA	A 0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_	_	

+127 -L		H	26			H:	27			Н	28			H:	29			Н	30		H31		R1			F	R2			R	3			F	:4	
抹水口	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/24	5/27	8/31	11/30	2/28	6/6	8/30	11/29
DPAA	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_	N.D.	N.D.	_												
PAA	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_	N.D.	N.D.	_												
PMAA	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_	N.D.	N.D.	_												

採水日		F	15	
抹水口	2/28	5/29	8/30	11/29
DPAA	_	-	-	_
PAA	_	_	_	_
PMAA	_	_	_	_

注)モニタリング井戸所在地の地権者が不在であったことから、平成25年春季~秋季の採水は未実施。令和4年秋季~令和6年冬季はポンプ故障のため採水不可。その後井戸廃止のためモニタリング終了

B-11

+10 =1 D	H16 H17						Н	118			Н	19			Н	20			H:	21			H:	22			H	23			Н	24			H:	25	
抹小口	5/31	10/12	1/27	4/28	7/11	1/26	5/26	8/30	11/22	2/27	5/24	8/27	11/27	2/29	5/27	8/29	11/27	2/25	5/28	8/25	11/25	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	0.024	0.005	N.D.	0.036	0.026	N.D.	0.003	0.001	N.D.	N.D.	0.001	0.001	N.D.	N.D.	N.D.	0.005	N.D.	0.001	N.D.																		
PAA	0.189	0.155	0.116	0.128	0.159	0.034	0.091	0.074	0.057	0.060	0.071	0.071	0.055	0.047	0.065	0.048	0.034	0.032	0.027	0.032	0.024	0.020	0.021	0.022	0.014	0.012	0.016	0.011	0.013	0.011	0.017	0.008	0.005	0.004	0.004	0.004	0.002
PMAA	0.006	0.005	N.D.	0.004	0.005	0.001	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.002	0.003	0.002	0.002	0.002	N.D.	0.001	0.001	0.001	0.002	0.001	0.001	N.D.	0.001	0.001	N.D.	0.001	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

+100 =14 C		H26 2/17 6/12 8/28 12 N.D. N.D. N.D. N.D. N.				H:	27			Н	28			Н	29			Н	30		H31		R1			R	R2			R	3			R	ł4	
抹水口	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.														
PAA	0.003	0.012	0.008	N.D.	N.D.	N.D.	N.D.	0.002	0.003	0.002	-	0.004	0.004	0.011	0.013	0.011	0.008	0.007	0.004	0.004	0.004	0.010	0.010	0.002	0.003	0.002	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	0.001	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

+121 -L		R	15			F	16	
採水日	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	N.D.	N.D.
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

B-18

+30 alv [KEI H16 H17 5/31 10/15 1/27 4/28 7						Н	18			Н	19			Н	20			Н	21			H	22			H:	23			H	24			H	25	
抹水口	5/31	10/15	1/27	4/28	7/11	1/26	5/26	8/30	11/22	2/27	5/24	8/27	11/27	2/29	5/27	8/29	11/27	2/25	5/28	8/25	11/25	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	N.D.	0.001	N.D.	0.002	0.003	0.002	0.003	0.002	0.001	N.D.	0.001	0.002	N.D.	0.001	0.001	N.D.	N.D.	N.D.	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.001	0.001	N.D.								
PAA	0.068	0.068	0.057	0.073	0.052	0.060	0.039	0.029	0.035	0.040	0.040	0.037	0.034	0.035	0.032	0.034	0.021	0.025	0.013	0.019	0.021	0.025	0.025	0.022	0.015	0.030	0.026	0.016	0.020	0.027	0.026	0.018	0.017	0.018	0.016	0.014	0.010
PMAA	0.005	0.003	N.D.	0.003	0.006	0.002	0.002	0.003	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.002	0.002	0.002	N.D.	0.001	0.001	0.002	0.003	0.002	0.002	0.001	0.003	0.003	0.002	0.002	0.003	0.004	N.D.	0.001	N.D.	N.D.	N.D.

1.	-L -		H:	26			H	27			Н	28			H	29			Н	30		H31		R1			F	2			F	13		<u> </u>	R	₹4	
17	水日	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29
	PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.	-	N.D.	N.D.	N.D.									
	PAA	N.D.	0.012	0.014	0.002	N.D.	0.003	0.003	0.003	0.004	0.003	0.001	0.001	0.013	0.024	0.018	0.020	0.018	0.011	0.012	0.018	0.016	-	0.016	0.019	0.016	0.009	0.006	0.005	0.006	0.009	0.008	0.005		0.003	0.003	0.003
E	MAA	N.D.	0.003	0.002	N.D.	N.D.	N.D.	N.D.	N.D.	0.001	N.D.	N.D.	N.D.	0.003	0.003	0.003	0.002	0.003	0.002	0.002	0.003	0.003	-	0.003	0.003	0.002	0.001	N.D.	N.D.	N.D.	0.003	0.001	N.D.		0.001	N.D.	N.D.

ヤシロ		R	₹5			F	₹6	
採水日	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.							
PAA	0.002	0.003	0.002	N.D.	0.002	0.005	0.003	0.001
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	N.D.	N.D.

A事案区域内及びその周辺(2)

F-2

+₩ -L -	,	H:	22			Н	23			Н	24			Н	25			H:	26			H	27			H:	28			Н	29			н	30	
採水日	3/1	5/27	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/11	11/29	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												

ちゃっ	H31		R1			R	2			F	₹3			R	₹4			F	15			R	:6	
採水日	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/29	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

F-7

ちゃっ	H:	H16 H17					Н	18			Н	19			Н	20			H	21			H:	22			H2	23			H:	24			H	25	
抹小口					11/11	1/26	5/26	8/30	11/22	2/27	5/28	8/28	11/28	2/29	5/27	8/29	11/28	2/25	5/28	8/25	11/25	3/1	5/27	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	_	_	_	_	N.D.	N.D.	N.D.	0.001	0.001	N.D.	N.D.	0.027	N.D.																								
PAA	_	_	-	_	0.062	0.069	0.023	0.027	0.028	0.033	0.023	0.027	0.026	0.015	0.019	0.025	0.016	0.019	0.010	0.010	0.023	0.012	0.012	0.008	0.015	0.022	0.019	0.021	0.023	0.018	0.013	0.017	0.020	0.017	0.007	0.014	0.013
PMAA	_	_	_	_	N.D.	N.D.	0.002	0.003	0.002	0.003	0.004	0.004	0.003	0.002	0.002	0.003	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	N.D.	0.002	N.D.

ちゃっ		Н	26			Н	27			Н	28			Н	29			Н	30		H31		R1			F	2			R	13			F	14	
採水日	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28/	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/29	11/29
DPAA	N.D.	0.003	N.D.	N.D.	N.D.	0.001	N.D.																													
PAA	0.013	0.007	0.016	800.0	0.007	0.004	0.010	0.012	0.009	0.005	0.010	0.014	0.014	0.013	0.017	0.018	0.015	0.006	0.016	0.025	0.023	0.010	0.018	0.019	0.013	0.006	0.005	0.004	0.005	0.004	0.005	0.004	0.003	0.003	0.002	0.003
PMAA	0.001	0.001	0.002	N.D.	N.D.	N.D.	0.002	0.001	0.001	N.D.	0.001	0.001	0.002	0.002	0.002	0.002	0.001	N.D.	0.002	0.002	0.002	0.001	0.002	0.001	0.001	N.D.	N.D.	N.D.	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

+₩ -L □		F	₹5			R	16	
採水日	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	0.002	0.002	0.003	0.002	0.002	N.D.	0.002	0.001
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

A事案区域外の北部地域周辺(1)

B-14

U 17																																					
+₩ -b -	Н	16		H17			Н	118			Н	19			Н	20			H	21			H:	22			H:	23			Н	24			Н	25	
採水日	5/31	10/12	1/27	4/28	7/11	1/26	5/26	8/30	11/22	2/27	5/28	8/27	11/27	2/29	5/27	8/29	11/27	2/25	5/28	8/25	11/25	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	N.D.	0.001	0.002	0.002	0.002	0.001	N.D.	0.001	0.002	0.002	0.002	0.002	0.001	N.D.																							
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.003	0.004	0.004	0.006	0.013	0.016	0.012	0.020	0.025	0.020	0.018	0.023	0.026	0.025	0.027	0.021	0.024	0.039	0.046	0.042	0.058	0.047	0.052	0.061	0.079	0.061	0.060	0.023	0.081	0.084	0.032
PMAA	0.063	0.051	0.016	0.036	0.038	0.044	0.050	0.053	0.045	0.055	0.050	0.049	0.043	0.043	0.033	0.034	0.026	0.031	0.023	0.019	0.015	0.012	0.019	0.028	0.039	0.029	0.032	0.027	0.029	0.031	0.031	0.025	0.025	0.012	0.028	0.033	0.014

+∞ -b r	,	H:	26			Н	27			Н	28			Н	29			H	30		H31		R1			R	2			F	83			F	R4	
休小口	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/28
DPA	N.D.																																			
PAA	0.055	0.110	0.092	0.045	0.022	0.018	0.024	0.026	0.029	0.031	0.036	0.028	0.023	0.037	0.049	0.030	0.028	0.022	0.023	0.024	0.021	0.030	0.029	0.023	0.030	0.026	0.019	0.017	0.018	0.022	0.019	0.015	0.020	0.012	0.010	0.008
PMA/	0.021	0.033	0.018	0.011	0.017	0.026	0.019	0.017	0.020	0.021	0.024	0.020	0.024	0.036	0.029	0.019	0.022	0.019	0.019	0.021	0.018	0.030	0.024	0.023	0.025	0.028	0.021	0.019	0.023	0.029	0.020	0.012	0.022	0.018	0.015	0.013

採水日		F	₹5			F	16	
沐小口	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.							
PAA	800.0	800.0	0.007	0.006	800.0	0.006	0.004	0.004
PMAA	0.015	0.017	0.012	0.011	0.019	0.021	0.009	0.005

A事案区域外の北部地域周辺(2)

D-13

₩.V.□	Н	116		H17			Н	18			Н	19			H:	20			Н	21			H:	22			H	23			Н	24			H.	25	
採水日		8/18	1/27	4/28	7/11	1/26	5/26	8/30	11/22	2/27	5/24	8/27	11/27	2/29	5/27	8/29	11/27	2/25	5/28	8/25	11/25	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	_	N.D.	0.001	N.D.	N.D.	0.005	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.006	0.005	0.003	0.002	N.D.																				
PAA	_	N.D.	0.001	N.D.	0.001	0.001	0.001	N.D.	N.D.	N.D.	N.D.																										
PMAA	_	0.067	0.023	0.009	0.005	N.D.	0.002	0.004	0.004	0.004	0.004	800.0	0.006	0.008	0.014	0.029	0.048	0.055	0.056	0.049	0.042	0.027	0.067	0.069	0.027	0.053	0.071	0.064	0.033	0.047	0.073	0.067	0.036	0.032	0.063	0.034	0.005

10 × 11		Н	26			Н	27			Н	28			Н	29			Н	30		H31		R1			F	₹2			R	13			F	₹4	
抹小口	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_	_	N.D.	_	_	_	_	_	_	_	_											
PAA	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	_		N.D.		_	_	_	_	_		_									
PMAA	0.009	0.060	0.045	0.024	0.019	0.051	0.034	0.012	0.012	0.011	0.002	0.004	N.D.	0.036	0.022	0.002	0.005	0.024	0.019	N.D.	0.006	0.031	0.055	0.003	0.028	_	_	0.001	_	_	_	_	_	_	_	_

採水日		F	₹5			R	16	
抹小口	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	-	_	_	-				-
PAA	_	_	_	_	_	_	_	_
PMAA	_	_	_	_	_	_	_	_

注)モニタリング井戸D-13は令和2年春季、夏季、令和3年冬季以降はポンプ故障のため採水不可。

H-0250

11 0200																																					
ちゃっ	H1	16		H17			Н	18			Н	19			Н	20			H				H:	22			H:	23			H:	24			H/	25	
採水日																																				1	
DPAA	_	1	_	_	_	-	_	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-	-	_		1	-		_	_	_	_	_	_	_
PAA	_	-	_	_	_	-	_	_		_	_	_	_	_	_	_	_	_	l	_	-	_	_	-		_	_	-	I	_	_	_	_	_	_	_	_
PMAA	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_			_		_	_	_	_	_	_	_

採水日	,	H:	26			H:	27			Н	28			H:	29			H	30		H31		R1			R	2			R	3			F	4	
採水上	1			12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29
DPAA	_	_	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	_	_	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	\ _	_		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

採水日		F	₹5			F	86	
抹小口	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

注)モニタリング井戸D-8は平成26年夏季に廃止されたことから、平成26年秋季より、H-0250に替えて調査を実施。

HC-0020

+₩-V-		116		H17			Н	118			Н	19			Н	20			H.	21			Н	22			H	23			Н	24			H:	25	
採水日	4/5	10/12	1/26	4/28	7/11	1/26	5/26	8/30	11/22	2/27	5/24	8/27	11/27	2/29	5/27	8/26	11/27	2/25	5/28	8/25	11/25	3/1	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.														
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.001	N.D.	0.001	N.D.	N.D.	0.002	0.001	0.002	0.001	0.002	0.002	0.001	0.001	0.001														
PMAA	0.026	0.049	0.053	0.049	0.038	0.025	0.020	0.021	0.014	0.014	0.017	0.015	0.015	0.014	0.012	0.01	0.012	0.011	0.009	0.009	0.008	0.008	0.012	0.018	0.016	0.010	0.010	0.015	0.023	0.013	0.025	0.020	0.026	0.026	0.014	0.016	0.008

採水日		H	26			Н	27			H	28			Н	29			H	30		H31		R1	
抹小口	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25
DPAA	N.D.	_	_																					
PAA	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	N.D.	0.001	0.001	N.D.		_						
PMAA	0.017	0.027	0.019	0.014	0.022	0.021	0.023	0.023	0.018	0.010	0.007	800.0	0.010	0.020	0.017	0.011	0.014	0.004	0.004	0.005	0.004	0.005	_	_

注)モニタリング井戸HC-0020は令和元年夏季よりポンプ故障のため、令和2年夏季よりM9に替えて調査を実施。

A事案区域外の北部地域周辺(3)

M9																																					
ちゃっ	H16 H17 H18							Н	19			Н	20			Н	21			Н	22			Н	23			H	24			H2	25				
採水日																																				i l	1
DPAA	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
PAA	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			_	_	_
PMAA	_	_		-	-	-	ı	_		-		-	_		-	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

採水日		H:	26			Н	27			Н	28			Н	29			Н	30		H31		R1			F	R2			F	3			F	R4	
抹小口																											9/7	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29
DPAA	_	_	_	_		_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	_	_	_	_	ı	_	_	_	_	-	_	_	_	_	_	1	_	_	_	_	_	_	_	_	_	_	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	_	_	_	_	_	_	-	_	_	_	_	-	ı	-	_	_	ı	ı	ı	_	_	_	_	_	-	_	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

ちゃっ		R	15			R	16	
採水日	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

E-5

₩.V.□	Н	16	H17 H18								Н	19			H:	20			Н	21			H:	22			H	23			Н	24			H	25	
抹小口				1/27	7/11	1/26	5/26	8/30	11/22	2/27	5/24	8/27	11/27	2/29	5/27	8/29	11/27	2/25	5/28	8/25	11/25	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	_	_	1	N.D.																																	
PAA	_	-	-	N.D.																																	
PMAA	_	-	_	0.007	0.003	0.004	0.010	0.011	0.008	0.008	0.009	0.014	0.013	0.013	0.020	0.020	0.016	0.015	0.009	0.015	0.014	0.012	0.014	0.021	0.025	0.013	0.010	0.012	0.012	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009

サジャロ		H	26			H	27			H	28			Н	29			Н	30	
採水日	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	_																		
PAA	N.D.	0.001	N.D.	N.D.	0.001	0.001	0.002	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	_
PMAA	0.007	0.012	0.010	0.010	0.008	0.006	0.006	0.002	0.003	0.002	0.001	0.001	0.002	0.007	0.003	0.002	0.001	0.001	0.002	_

G-3

+₩-V-□	Н	16		H17			Н	18			Н	19			Н	20			H.	21			H.	22			H:	23			Н	24			H	125	
採水日						1/26	5/26	8/30	11/22	2/27	5/24	8/28	11/27	2/29	5/27	8/29	11/27	2/25	5/28	8/25	11/25	3/1	5/28	8/26	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29
DPAA	_	_	_	_	_	0.004	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.001	0.002	0.004	0.002	N.D.	0.002	0.001	0.002	N.D.	0.003	0.002	0.002	0.002	N.D.	N.D.	0.006								
PAA	_	_	_	_	_	0.024	0.007	0.004	0.004	0.005	0.015	0.019	0.019	0.012	0.022	0.057	0.009	0.003	0.022	0.015	0.007	0.006	0.008	0.002	0.005	0.002	0.021	0.060	0.036	0.014	0.036	0.011	0.059	0.023	0.010	0.005	0.005
PMAA	_	-	_	-	-	N.D.	0.026	0.002	0.005	0.009	0.041	0.062	0.006	0.029	0.011	0.110	0.010	0.002	0.065	0.019	0.006	0.002	0.024	0.009	0.004	0.003	0.016	0.064	0.012	0.006	0.068	0.029	0.025	0.022	0.036	0.024	0.003

+107 -1		H:	26			Н	127			Н	28			Н	29			Н	30		H31		R1			F	2			F	₹3			F	₹4	
抹水	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29
DPA	A 0.002	0.001	0.003	0.002	0.002	0.002	0.004	0.002	0.002	N.D.	N.D.	N.D.	N.D.	0.002	0.002	0.002	0.002	N.D.	0.002	0.005	0.002	N.D.	0.003	0.003												
PAA	0.003	0.010	0.014	0.034	0.024	0.018	0.038	0.024	0.028	0.002	0.006	0.006	0.001	0.019	0.030	0.049	0.008	0.006	0.007	0.002	0.002	0.003	0.006	0.018	0.007	0.006	0.004	800.0	0.007	0.006	0.005	0.022	0.013	0.003	0.004	0.003
PMA	A 0.005	0.021	0.035	0.025	0.035	0.029	0.062	0.009	0.025	N.D.	0.007	0.007	0.005	0.037	0.032	0.075	0.004	0.004	0.003	N.D.	0.003	0.014	0.002	0.003	0.008	N.D.	N.D.	0.008	0.009	0.007	0.006	0.002	0.007	0.002	0.003	0.002

₩ ₩ □		F	₹5			R	16	
採水日	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	0.003	0.002	N.D.	N.D.	0.003	0.005
PAA	0.009	0.063	0.150	0.055	0.019	0.007	0.008	0.004
PMAA	0.012	0.009	0.006	N.D.	0.015	0.006	0.004	0.002

要調査地域南東側

J35																																				
422-14		H2	H22 H23						Н	24			Н	25			H:	26			Н	127			H:	28			Н	29			н	30		
採水上	2/26	5/28	8/26	11/26	2/17	5/27	8/30	11/25	2/24	5/28	8/24	11/30	2/28	6/6	9/11	11/29	2/17	6/12	8/27	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	0.001	0.001	N.D.	N.D.	N.D.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

125 - 17 C	H31		R1			R	2			F	23			F	24			R	5			R	86	
採水日	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				

要調査地域外縁部周辺(1)

М3

₩.J.		H	22			H	23			H.	24			Н	25			H:	26			H:	27			H	28			H:	29			H:	30	
採水日													2/28	6/6	9/13	11/29	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	_	_	_	_	_	_	_	_	_	_	_	_	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PAA	_	_	_	_	_	_	_	_	_	_	_	_	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
PMAA	_	_	_	_	_	_	_	_	_	_	_	_	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

100 -14 C	H31		R1			R	2			R	13			F	4			R	5			R	86	
採水日	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				

注)モニタリング井戸M1は平成24年秋季に廃止されたことから、平成25年冬季より、M3に替えて調査を実施。

IVITO																																				
採水日		H2	22			H:	23			Н	24			Н	25			H:	26			Н	27			Н	28			H:	29			H	30	
抹小口	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												

採水日	H31		R1			R	2			F	3			F	₹4			R	15			R	6	
抹小口	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				

M20

₩ ₩ □		H	22			H:	23			Н	24			H	25			H	26			Н	27			H	28			H	29			Н	30	
採水日	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												

採水日	H31		R1			R	2			F	13			F	4			F	5			F	:6	
抹小口	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				

要調査地域外縁部周辺(2)

M22

サジュレロ		H	22			H	23			Н	24			H	25			H:	26			Н	27			H	28			H	29			H	130	
抹小口	2/27	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												

₩ ₩ □	H31		R1			R	2			F	13			F	14			R	5			R	6	
採水日	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				

SB225

ちゃっ		Н	22			Н	23			Н	24			Н	25			H:	26			Н	27			Н	28			H:	29			н	30	
抹小口	2/24	5/28	8/25	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												

採水日	H31		R1			R	2			F	3			F	14			R	:5			R	6	
抹小口	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				

J18-7

採水日		H	22			H	23			Н	24			H:	25			H:	26			Н	27			Н	28			H	29			H	30	
抹小口	2/26	5/28	8/26	11/26	2/17	5/27	8/30	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29	2/17	6/12	8/27	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												

採水日	H31		R1			R	2			R	13			R	4			R	5			R	6	
抹小口	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	5/31	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				

G1

+25 −1. □		H2	22			H	23			Н	24			H:	25			H:	26			Н	27			Н	28			H:	29			Н	130	
採水口	3/1	5/28	8/26	11/26	2/17	5/27	8/29	11/24	2/24	5/28	8/24	11/30	2/28	6/6	9/13	11/29	2/17	6/12	8/28	12/3	2/19	5/27	8/25	11/27	2/23	5/30	8/30	11/30	2/21	5/30	8/29	11/29	2/28	5/31	8/28	11/26
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												
PMAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.												

採水日	H31	R1			R2				R3				R4				R5				R6			
	2/26	5/28	8/21	11/25	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	6/6	8/30	11/29	2/28	5/29	8/30	11/29	2/26	5/27	8/26	11/25
DPAA	N.D.	N.D.	N.D.	N.D.																				
PAA	N.D.	N.D.	N.D.	N.D.																				
PMAA	N.D.	N.D.	N.D.	N.D.																				