神奈川県平塚市における地下水モニタリング(令和4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 17 箇所で地下水モニタリングを実施している。

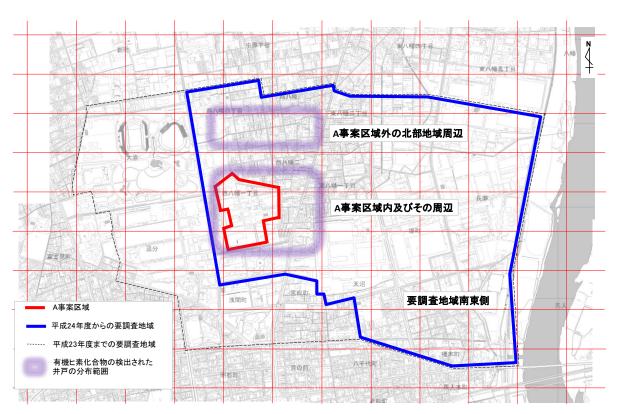


図 1 平塚地区における要調査地域範囲及び外縁部周辺位置関係

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、有機ヒ素化合物の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4年冬季~秋季は、A事案区域内及びその周辺で5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箇所のモニタリング井戸(合計17箇所)において地下水モニタリングを実施した。その結果、有機ヒ素化合物のうち、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1 箇所、PMAAは2 箇所の井戸で検出されたが、いずれも $0.002 \sim 0.022 mg$ -As/L と低濃度であり、濃度上昇は認められない。なお、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。

(1) 地下水の流れ

令和 4 年冬季~秋季の地下水位標高は、要調査地域の北西部では約 5.3~5.7m、東部では約 2.2~2.6m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、概ね 2.6~5.9m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 4 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)

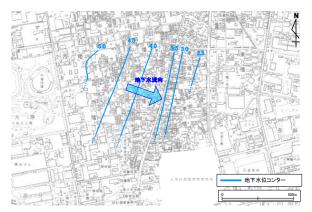


図2-1 地下水の流れと地下水位等高線 冬季:令和4年2月測定 (地下水位等高線の単位:標高m)

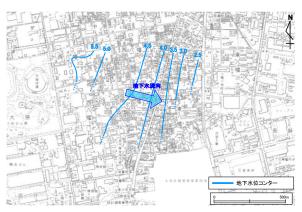


図2-2 地下水の流れと地下水位等高線 春季:令和4年6月測定 (地下水位等高線の単位:標高m)

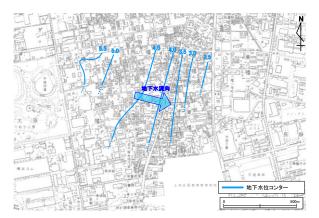


図2-3 地下水の流れと地下水位等高線 夏季:令和4年8月測定 (地下水位等高線の単位:標高m)

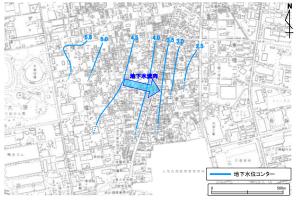


図2-4 地下水の流れと地下水位等高線 秋季:令和4年11月測定 (地下水位等高線の単位:標高m)

(2) 有機ヒ素化合物の分析結果

ア A事案区域内及びその周辺

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 箇所であり、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。

令和 4 年冬季~秋季において、有機ヒ素化合物の濃度が 0.01mg-As/L を超過した井戸は 無かった。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。

イ A事案区域外の北部地域周辺

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 箇所であり、要調査地域を見直した平成 24 年春季以降の最大濃度は 0.110mg-As/L (平成 26 年春季) である。

現在モニタリング対象としている 4 箇所のうち、令和 4 年冬季 2 箇所、春季 1 箇所、夏季 1 箇所、秋季 1 箇所で有機ヒ素化合物の濃度が 0.01mg-As/L を超過したが、その濃度は $0.010\sim0.022$ mg-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。

ウ 要調査地域南東側

要調査地域南東側では、令和4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。

工 要調査地域外縁部周辺

要調査地域外縁部周辺では、令和4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。

有機ヒ素化合物分析結果一覧表(単位:mg-As/L、定量下限値:いずれも0.001mg-As/L)

A事案区域内及びその周辺(1)

B-23

+100	-k 🗆	H1	16		H17			Н	18			Н	19			Н	20			H:	21			H.	22			H	23			Н	24			H	25	
沐	水日-	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
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.	_	_	
F	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.	_	_	_
Р	AAN	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.	_	_	_

+100 aV II		H2	26			H	27			Н	28			Н	29			H	30		H31		R1			R	2			F	13			R	₹4	
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	2/24	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.	-												

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。

B-11

採水	_ н	116		H17			Н	18			Н	19			Н	20			Н	21			H	22			H	23			H	24			H2	25	
抹小	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
DPA	A 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
PMA	A 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.

採水		Н	126			H.	27			Н	28			Н	29			Н	30		H31		R1			R	2			F	13			R	:4	
抹小	2/1	7 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 N.C	. N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.														
PA	A 0.00	3 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.
PM/	A N.C	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.

B-18

+177 -1-1		16		H17			Н	18			Н	19			Н	20			H	21			H	22			H	23			Н	24			H:	25	
採水日	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.

+127 × 12	,	H	26			H	27			Н	28			Н	29			Н	30		H31		R1			F	R2			F	13		i	R	.4	
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	8/30	11/29
DPA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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
PMA/	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	ı	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.

F-2

+₩ -b -	,	H	22			H	23			Н	24			H:	25			H:	26			H	27			Н	28			H	29			Н	30		H31		R1	
休小口	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	2/26	5/28	8/21	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.	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.												
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.												

採水日		R	2			F	3			F	84	
抹水口	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.	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.
PMAA	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ИD	ΝD

機ヒ素化合物分析結果一覧表(単位:mg-As/L、定量下限値:いずれも0.001mg-As/L)

A事案区域内及びその周辺(2)

F-7

+₩ -L 1		H16			H17			Н	18			Н	19			H	20			H	21			H	22			H:	23			Н	24			H	25	
休小						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
DPA	۸ —	- -	-	_	-	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	800.0	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
PMA	۸ —	- -	-	_	_	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.

センロ		H	26			H:	27			Н	28			H:	29			H	30		H31		R1			R	2			R	3			R	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	8/29	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.

A事案区域外の北部地域周辺(1)

B-14

ちゃロ	H.	16		H17			Н	18			Н	19			Н	20			H	21			H:	22			H	23			Н	24			H2	25	
抹小口	5/31	10/12	1/27	4/28	7/11	1/26	5/26	8/30	11/22	2/27	5/28	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

ちゃっ		H	26			H:	27			Н	28			Н	29			H	30		H31		R1			R	2			R	3			R	14	
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
DPAA	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
PMAA	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

D-13

ちゃっ	Н	16		H17			H:	18			Н	19			Н	20			Н	21			Н	22			H:	23			Н	24			H2	25	
休小口		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	0.008	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

採水日		H	26			Н	27			Н	28			Н	29			H	30		H31		R1			R	2			F	13			R	.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	_	_	_	_	_	_	_	_

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~秋季、令和4年冬季~秋季はポンプ故障のため採水不可。

H-0250

セー	H	16		H17			Н	118			Н	19			Н	20			H	21			Н	22			Н	23			Н	24			H:	25	
抹小口																																				1	1
DPAA		_	_	_	_	_	-	_	_	-	_	_	-	_	_	-	_	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_	-	_	_		_
PAA	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
PMAA	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_

+₩ -L □		H2	26			H	27			H:	28			Н	29			H	30		H31		R1			R	2			R	3			R	4	
抹小口				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.

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。

有機ヒ素化合物分析結果一覧表(単位:mg-As/L、定量下限値:いずれも0.001mg-As/L)

A事案区域外の北部地域周辺(2)

HC-0020

極を口	Н	16		H17			Н	18			Н	19			H	20			Н	21			H	22			H2	23			Н	24			H2	25	
抹小口	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	800.0

採水日		H:	26			H	27			Н	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	0.008	0.010	0.020	0.017	0.011	0.014	0.004	0.004	0.005	0.004	0.005	-	_

+107 -TV	_	H16		H17			Н	18			Н	19			H	20			Н	21			H	22			H	23			H2	24	,		H2	25	
沐小																																					
DPA	A —	_	_	_	_		_	_	_		_	_	-	_	_	_	_	_	_	_	ı	_	-	ı	_	-	ı	1	ı	_	_	_	_	_	_	-	_
PA	· —	_	_	_	-	-	_	_	_	-	_	_	-	_	_	_	_	_	_	-	ı	_	-	ı	_	-	ı	1	ı	_	_		_	_	_	-	_
PMA	A —	_	_	_	_	_	_	_	_	_	-	_		_	-	_	_	-			-	_		-	-	_	_	_	-		_	_	_	_	_	_	

ちゃっ		H2	26			Н	27			Н	28			Н	29			H	30		H31		R1			F	2			F	13			R	₹4	
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	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	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	ı	ı	_	_	_	_	ı	_	-	ı	ı	_	N.D.	N.D.	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。

E-5

やそロ	H	16		H17			Н	118			Н	19			H:	20			H:	21			H:	22			Н	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	_	_	_	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

採水日		H:	26			H	27			Н	28			Н	29			H	30	
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
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

惊ゃロ	H1	6		H17			Н	18			Н	19			Н	20			H:	21			H	22			H	23			Н	24			H:	25	
休小口						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	_		1	_	_	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	0.002	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	0.003	0.068	0.029	0.025	0.022	0.036	0.024	0.003

+177	.L 🗆		H:	26			H:	27			Н	28			Н	29			H	30		H31		R1			R	2			R	3			R	₹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
DI	PAA	0.002	0.001	0.003	0.002	0.002	0.002	N.D.	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												
Р	AA	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	0.008	0.007	0.006	0.005	0.022	0.013	0.003	0.004	0.003
PN	IAA	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

有機ヒ素化合物分析結果一覧表(単位:mg-As/L、定量下限値:いずれも 0.001mg-As/L)

要調査地域南東側

J35																																								
+170 mlv 1	_	H:	22			H	23			H	24			Н	25			Н	26			H:	27			Н	28			H:	29			Н	30		H31		R1	
採水日	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	2/26	5/28	8/21	11/25
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.	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.	N.D.	N.D.	N.D.	N.D.
PMA	A 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.	N.D.	N.D.	N.D.	N.D.

採水日		R	2			F	13			F	14	
沐小口	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.
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.
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.

要調査地域外縁部周辺(1)

М3

+₩-J- F	,	Н	22			H	23			H	24			Н	25			H	26			H	27			Н	28			H	29			H	30		H31		R1	
採水口													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	2/26	5/28	8/21	11/25
DPA	4 —	_	_	_	_	_	_	_	_	_	_	_	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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.
PMAA	4 —	-	_	_	-	_	_	_	_	_	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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		R	2			F	13			F	14	
沐小口	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.
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.
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.

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。

M	II	U	

採水日	,	H	22			Н	23			H:	24			Н	25			H:	26			H	27			H.	28			H	29			H	30		H31		R1	
休小口	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	2/26	5/28	8/21	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.	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.												
PMA.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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		R	R2			F	13			F	14	
沐小口	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.
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.
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.

M20

+100 alv E	,	H2	22			H	23			Н	24			H:	25			H	26			H2	27			Н	28			H	29			Н	30		H31		R1	
休小口	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	2/26	5/28	8/21	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.	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.												
PMA.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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		R	₹2			F	13			F	14	
抹小口	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.
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.
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.

有機ヒ素化合物分析結果一覧表(単位:mg-As/L、定量下限値:いずれも 0.001mg-As/L)

要調査地域外縁部周辺(2)

M22																																								
+100 a-lv F	,	H:	22			H	23			Н	124			Н	25			H:	26			H	27			Н	28			H2	29			Н	30		H31		R1	
採水口	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	2/26	5/28	8/21	11/25
DPA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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.												
PMA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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		R	2			F	13			F	₹4	
休小口	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.
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.
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.

SB225

+100 -10 10	,	H	22			Н	23			H:	24			Н	25			Н	26			Н	27			Н	28			H:	29			H	30		H31		R1	
休小口	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	2/26	5/28	8/21	11/25
DPA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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.												
PMA/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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	R2			F	13			F	R4	
沐小口	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.
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.
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.

J18-7

₩.J. [H2	22			Н	23			Н	24			Н	25			H	26			H	27			Н	28			H2	29			Н	30		H31		R1	
休小口	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	2/26	5/28	8/21	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.	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.												
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.												

採水日		R	2			F	13			F	R4	
沐小口	2/26	6/29	8/26	11/25	2/26	5/27	8/31	11/30	2/28	5/31	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.
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.
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.

G1

+100 at 10		H:	22			Н	23			Н	24			Н	25			H:	26			H.	27			Н	28			H:	29			Н	30		H31		R1	
休小口	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	2/26	5/28	8/21	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.	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.												
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.												

採水日		R	2			F	13			F	84	
採水口	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.
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.
DMAA	ND	ИD	ИD	ИD	ИD	ИD	ИD	ИD	ND	ИD	ИD	NП