

神奈川県平塚市における地下水モニタリング（令和５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。

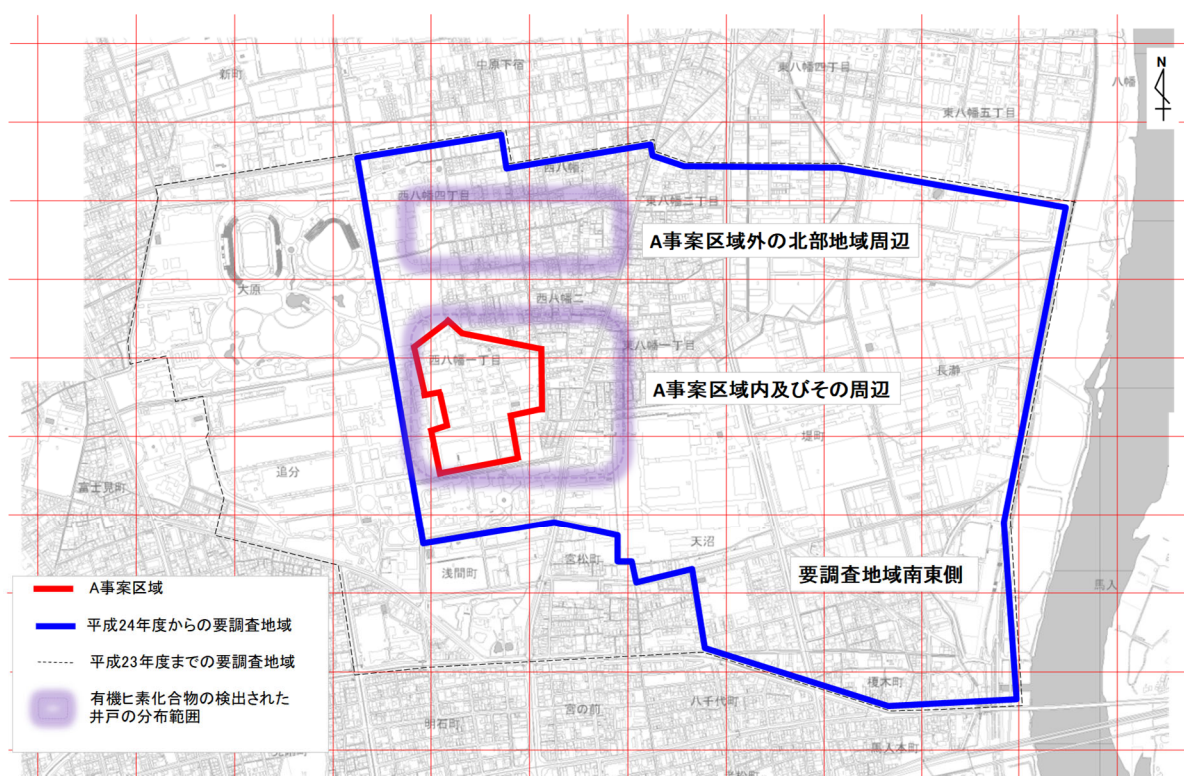


図1 平塚地区における要調査地域範囲及び外縁部周辺位置関係

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5年冬季～秋季は、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箇所のモニタリング井戸（合計16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、PAA は 2 箇所の井戸で検出され、その濃度は 0.002~0.150mg-As/L であった。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 5 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 5.0~5.5m、東部では約 2.2~2.4m 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、2.8~6.0m 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 5 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)

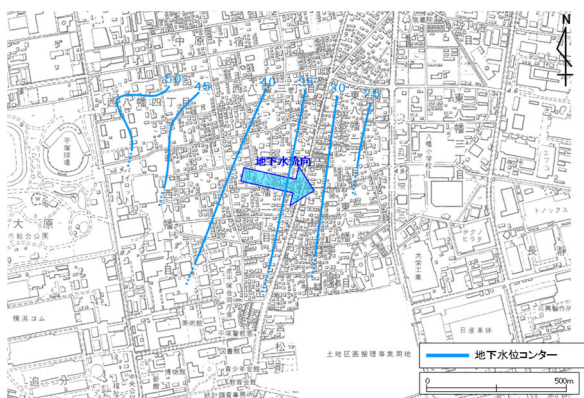


図 2-1 地下水の流れと地下水位等高線
冬季：令和 5 年 2 月測定
(地下水位等高線の単位：標高 T.P. + m)



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



図 2-3 地下水の流れと地下水位等高線
夏季：令和 5 年 8 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 5 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 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 5 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 5 年春季 1 箇所、夏季 1 箇所、秋季 1 箇所では有機ヒ素化合物の濃度が 0.01mg-As/L を超過し、これはいずれも G-3 地点であった。G-3 地点では令和 5 年春季、夏季に PAA 濃度の上昇が見られ、令和 5 年夏季は 0.150mg-As/L と一時的に比較的高濃度となったが、直近の令和 5 年秋季は濃度低下し、0.055mg-As/L であった。

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 5 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。

エ 要調査地域外縁部周辺

要調査地域外縁部周辺では、令和 5 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。

(3) 次年度以降の地下水モニタリングについて

平塚市における地下水モニタリングについては、平成24年3月に要調査地域範囲の再設定を実施して以降、2年毎にモニタリング内容の見直しの要否を検討している。令和4年冬季～令和5年秋季の調査結果において汚染の濃度及び分布に大きな変化がないことから、令和6年度、令和7年度もこれまでと同様のモニタリングを実施することとしたい。

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)

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採水日	H16			H17			H18				H19				H20				H21				H22				H23				H24				H25			
	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	
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.	—	—	—	
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.	—	—	—	
PMAA	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.	—	—	—	

採水日	H26				H27				H28				H29				H30				H31	R1				R2				R3				R4				R5			
	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	2/28	5/29	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.	—	—	—	—	—	—	
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.	—	—	—	—	—	—	
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.	—	—	—	—	—	—	

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年秋季以降はポンプ故障のため採水不可。

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採水日	H16			H17			H18				H19				H20				H21				H22				H23				H24				H25				
	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.	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.
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	0.001	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.	

採水日	H26				H27				H28				H29				H30				H31	R1				R2				R3				R4				R5				
	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	2/28	5/29	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.	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.	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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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採水日	H16			H17			H18				H19				H20				H21				H22				H23				H24				H25			
	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.	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.	N.D.	N.D.	N.D.	N.D.	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.	

採水日	H26				H27				H28				H29				H30				H31	R1			R2				R3				R4				R5				
	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	2/28	5/29	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.	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	0.002	0.003	0.002	N.D.	
PMAA	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.	N.D.	N.D.	N.D.	N.D.	N.D.

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採水日	H22				H23				H24				H25				H26				H27				H28				H29				H30				H31	R1					
	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.	N.D.	N.D.	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.	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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

採水日	R2				R3				R4				R5			
	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
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.
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.
PMAA	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.

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 (2)

F-7																																					
採水日	H16		H17		H18				H19				H20				H21				H22				H23				H24				H25				
					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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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	—	—	—	—	0.062	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.

採水日	H26				H27				H28				H29				H30				H31	R1			R2			R3			R4			R5							
	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	2/28	5/29	8/30	11/29	
DPAA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.003	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.	
PAA	0.013	0.007	0.016	0.008	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	0.002	0.002	0.003	0.002	
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	0.002	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.	N.D.	N.D.	N.D.	N.D.

A事案区域外の北部地域周辺 (1)

B-14																																							
採水日	H16		H17			H18				H19				H20				H21				H22				H23				H24				H25					
	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.	N.D.	N.D.	N.D.	N.D.	N.D.	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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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.	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		

採水日	H26				H27				H28				H29				H30				H31	R1			R2			R3			R4			R5						
	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	2/28	5/29	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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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	0.008	0.008	0.007	0.006
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	0.015	0.017	0.012	0.011

D-13

採水日	H16		H17		H18				H19				H20				H21				H22				H23				H24				H25				
	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.	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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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.	0.001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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	H26				H27				H28				H29				H30				H31	R1			R2			R3			R4			R5							
	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	2/28	5/29	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.	—	—	—	—	—	—	—	—	—	—	—	—	—
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.	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年冬季以降はポンプ故障のため採水不可。

H-0250

採水日	H16		H17		H18				H19				H20				H21				H22				H23				H24				H25			
DPAA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
PAA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
PMAA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					

採水日	H26				H27				H28				H29				H30				H31	R1				R2				R3				R4				R5				
					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	2/28	5/29	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.	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.
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.	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）

A事案区域外の北部地域周辺（2）

HC-0020

採水日	H16			H17			H18				H19				H20				H21				H22				H23				H24				H25			
	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.	N.D.	N.D.	N.D.	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.
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	H26				H27				H28				H29				H30				H31	R1		
	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.	—	—
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.	N.D.	N.D.	N.D.	N.D.	N.D.	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	—	—

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。

M9																																					
採水日	H16		H17			H18				H19				H20				H21				H22				H23				H24				H25			
DPAA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
PAA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
PMAA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						

採水日	H26				H27				H28				H29				H30				H31	R1			R2			R3				R4				R5			
																							9/7	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			
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.	N.D.	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.	

E-5																																						
採水日	H16		H17			H18				H19				H20				H21				H22				H23				H24				H25				
				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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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.
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	H26				H27				H28				H29				H30			
	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.	—
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																																					
採水日	H16		H17		H18				H19				H20				H21				H22				H23				H24				H25				
						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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	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	0.016	0.064	0.012	0.006	0.068	0.029	0.025	0.022	0.036	0.024	0.003	

採水日	H26				H27				H28				H29				H30				H31	R1				R2				R3				R4				R5			
	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	2/28	5/29	8/30	11/29	
DPAA	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.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.005	0.002	N.D.	0.003	0.003	N.D.	N.D.	0.003	0.002	
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	0.008	0.007	0.006	0.005	0.022	0.013	0.003	0.004	0.003	0.009	0.063	0.150	0.055	
PMAA	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	0.012	0.009	0.006	N.D.	

資料 4-1

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

[illegible][illegible]

要調査地域外縁部周辺 (1)

[illegible][illegible]

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。

[illegible][illegible][illegible][illegible]

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)

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]