Introduction

This report is a continuation of a series of quarterly public reports compiled by the Department of Environment and Natural Resources (DENR). The Code of Practice: Onshore Petroleum Activities in the Northern Territory (the Code) (2019) requires 6 months of baseline monitoring of groundwater at a well site prior to undertaking hydraulic fracturing activities. This report presents results of on-going groundwater monitoring undertaken by Santos at its well sites in the Beetaloo sub-basin in compliance with the Code. The report includes updated ongoing groundwater monitoring data for the control monitoring bores (CMB) at the Tanumbirini and Inacumba petroleum well site on EP161 and groundwater monitoring data for the newly constructed impact monitoring bore (IMB) at the Tanumbirini well site (Figure 1).

Groundwater Monitoring Program

Companies are required to submit groundwater monitoring data quarterly, in compliance with the the Code. DENR has committed to publishing the monitoring results from interest holders to increase the transparency of monitoring and reporting of groundwater potential impacts by the onshore gas industry in the Northern Territory.

The Santos groundwater monitoring program consists of:

- Control Montoring Bore (CMB), which is located "upstream" and within 100 m of each planned or existing petroleum well pad, screened across the Gum Ridge aquifer and a separate CMB screened across the Anthony Lagoon aquifer in compliance with the Code; and
- Impact Monitoring Bore (IMB), which is located 20 m "downstream" of the location of the petroleum well(s).

These bores enable an ongoing comparison of the groundwater upstream and downstream of the petroleum well, to allow for an immediate identification of any variation in the groundwater that can be directly related to the petroleum activity.

Groundwater quality

At both the Tanumbirini and Inacumba petroleum well sites the regional Cambrian Limestone Aquifer (CLA) system consists of only the Gum Ridge aquifer. This karstic aquifer is used as a source of groundwater by pastoralists and regional communities. A groundwater extraction licence (GRF10280) has been granted to Santos for extraction of up to a total of 190 ML per year from the Gum Ridge aquifer across it's exploration permit areas in the Beetaloo sub-basin. At the Tanumbirini well site both a control monitoring bore (CMB) and an impact monitoring bore (IMB) have been constructed. The approved hydraulic fracturing of the vertical Tanumbirini-1 petroleum well was completed in November 2019. At the Inacumba well site the drilling of the approved Inacumba exploration petroleum well had not yet commenced during the monitoring period (Dec 2018-Dec 2019). An IMB has not yet been installed at Inacumba.



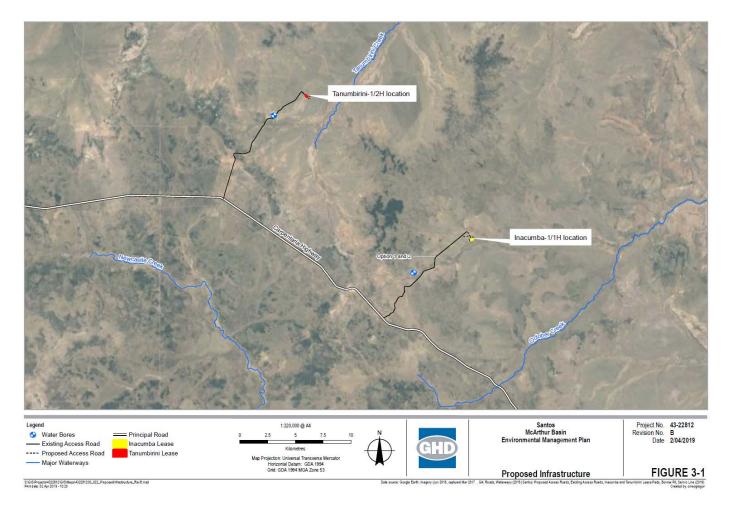


Figure 1: Santos Tanumbirini and Inacumba well sites on Exploration Permit (EP) 161 area in the Beetaloo sub-basin (courtesy: Santos)

Summary and Interpretation of Results

The updated raw groundwater monitoring results reported quarterly by Santos for the Beetaloo Sub-basin are available at Appendix 1.

Table 1 lists a summary of key "indicator" analyte averages and standard deviations for the sampling events at both Tanumbirini and Inacumba well sites. 19 sampling events for the CMB at Tanumbirini and 12 sampling events for the CMB at Inacumba were undertaken during the sampling period from December 2018 to December 2019. Three sampling events were undertaken during the sampling period from November to December 2019 for the IMB at Tanumbirini, prior to and following the hydraulic fracturing operations on the Tanumbirini-1 petroleum well.

Groundwater quality was different between the Tanumbirini and Inacumba well sites for a range of water quality parameters, the most notable being salinity related variables such as total dissolved solids, electrical conductivity and chloride concentration (Table 1). Tanumbirini well site, situated approximately 20 kms northwest of the Inacumba well site, was "fresher" than Inacumba.

Figure 2 provides graphical presentation of the baseline quartile ranges for key "indicator" analytes in the CMB and IMB at the Tanumbirini well site. Methane levels were below the limits of detection (> 1 μ g/L) at

Tanumbirni CMB over the monitoring period. Trace levels of methane (~3 μ g/L) were detected in the Tanumbirini IMB during the monitoring period (November to December 2019). Water quality was in general very similar (no significant difference) between the CMB and IMB at Tanumbirini both before and following the hydraulic fracture operations undertaken on the Tanumbirini-1 well in late November, 2019. Each analyte has been scaled appropriately for graphing. For example, electrical conductivity (E.C.) is divided by a factor of 10 so in the Tanumbirini CMB the E.C. quartile range is approximately 1290 to 1410 μ S/cm. Similarly gross alpha is multiplied by a factor of 100 so in the Tanumbirini CMB the equartile range is approximately 0.35 to 0.91 Bq/L. Average values for all analytes in both aquifers were below drinking water guidance values except for gross alpha radionuclides. Radionuclides (both alpha and beta) also had the largest variation in the range of values among the key analytes, as can be seen in Figure 1. While groundwater may on occasion exceed gross alpha drinking water standard in the Gum Ridge aquifer (Table 1) at both Tanumbirini and Inacumba, this is not uncommon in groundwater systems where concentrations of dissolved natural constituents can build up during prolonged periods of water/rock contact. For example, similar results have been reported around Katherine (1996):

https://www.territorystories.nt.gov.au/jspui/bitstream/10070/228526/1/WRD96073.pdf

Figure 3 presents similar data for the CMB only at Inacumba well site. Inacumba well site is situated "upgradient" of Tanumbirini well site in the Gumridge aquifer. This can be determined by comparison of water level height relative to Australian height datum (AHD) which is approximately 157.3m AHD at Tanumbirini and 158.6m AHD at Inacumba (Table 1).

Figure 4 -6 provide water level logger data for Tanumbirini and Inacumba well sites from Dev '18 to Dec '19. The change in standing water levels that can be observed is due to pumping activities both in the monitored bores and from nearby bores. These variations are relatively minor and overall water level is considered reliable.

The groundwater will continue to be monitored in accordance with the Code and the Preliminary Guideline: Groundwater Monitoring Bores for Exploration Petroleum Wells in the Beetaloo Sub-basin (2018).

Conclusion

In accordance with the Code and Ministerial condition of approval of the EMP, results of ongoing groundwater monitoring must be provided by Santos every quarter for three years from the approval date of the EMP (2019). This data will be reported and published on the DENR website as they become available.

Table 1: Average and standard deviation results for key 'indicator' analytes for Santos control monitoring bores (CMB) at Tanumbirini and Inacumba and impact monitoring bores (IMB) at Tanumbirini..

Key analyte	Drinking Water Guidance	Tanumbirini Control Monitoring Bore n = 19	Tanumbirini Impact Monitoring Bore n = 3	Inacumba Control Monitoring Bore n = 12
Standing Water Level AHD (m)	-	156.9 -157.3	157.3 - 157.4	158.6 ± 0.02
Total Dissolved Solids (mg/L)	600	828 ± 57	864 ± 13	1186 ± 89
Total Alkalinity (mg/L)		406 ± 41	408 ± 17	431 ± 38
Electrical Conductivity (µS/cm)	< 2,500	1304 ± 109	1316 ± 6	1778 ± 123
Chloride (mg/L)	~ 250	108 ± 11	110 ± 0.6	155 ± 3
Barium (mg/L)	0.7	0.04 ± .02	0.04 ± .01	0.038 ± .001
Boron (mg/L)	4.0	0.18 ± 0.02	0.18 ± 0.02	0.27 ± 0.02
Strontium (mg/L)	N.A	0.82 ± 0.08	0.79 ± 0.05	0.95 ± 0.12
Methane µg/L	N.A.	<0.01	3.33 ± 0.58	<0.01
Gross alpha (Bq/L)	0.5	0.76 ± 0.12	0.72 ± 0.15	0.28 ± 0.06
Gross beta (Bq/L)	1.0	0.39 ± 0.06	0.34 ± 0.02	0.23 ± 0.07

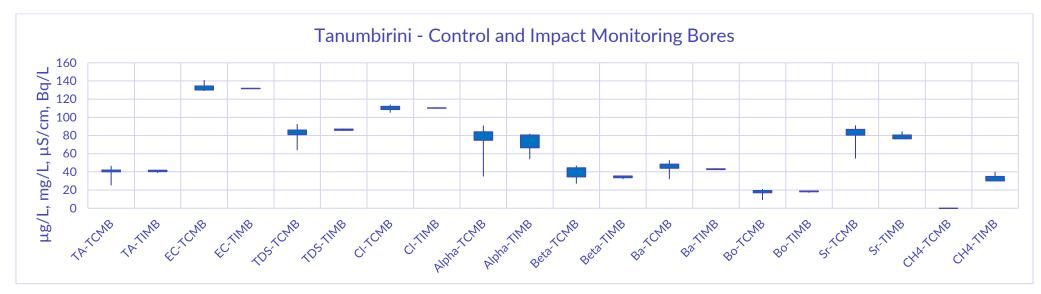


Figure 2: Natural background quartile ranges for key "indicator" analytes in control monitoring bore (CMB) and impact monitoring bore (IMB) at Tanumbirni well site based on sampling events from Dec' 18 to Dec '19. Analytes have been scaled for graphical presentation.

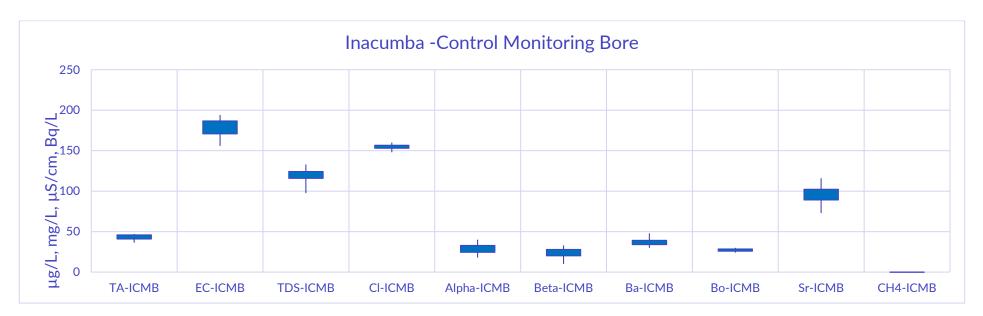


Figure 3: Natural background quartile ranges for key "indicator" analytes in the Gum Ridge aquifer at the Inacumba well site based on sampling events from Dec' 18 to Dec '19. Analytes have been scaled for graphical presentation.

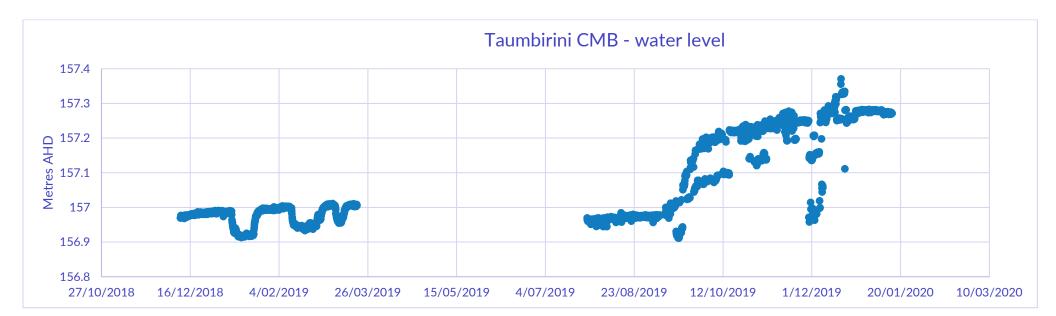


Figure 4: Water level logger data for Tanumbirini CMB. The change in standing water levels that can be observed is due to pumping activities both in the monitored bores and from nearby bores. These variations are relatively minor and overall water level is considered reliable.

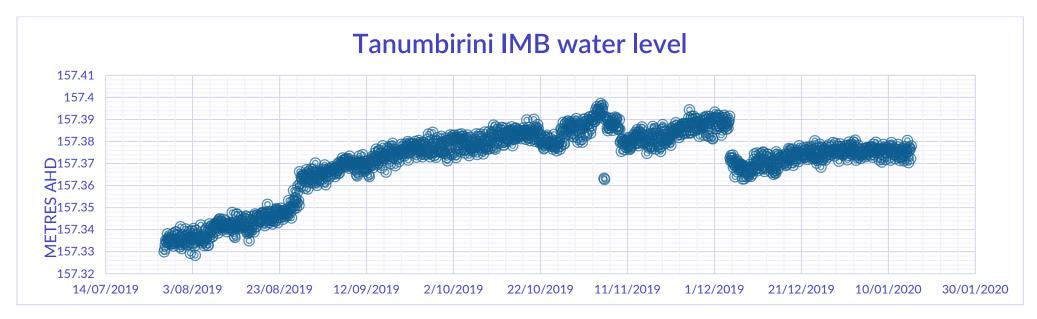


Figure 5: Water level logger data for Tanumbirini IMB.

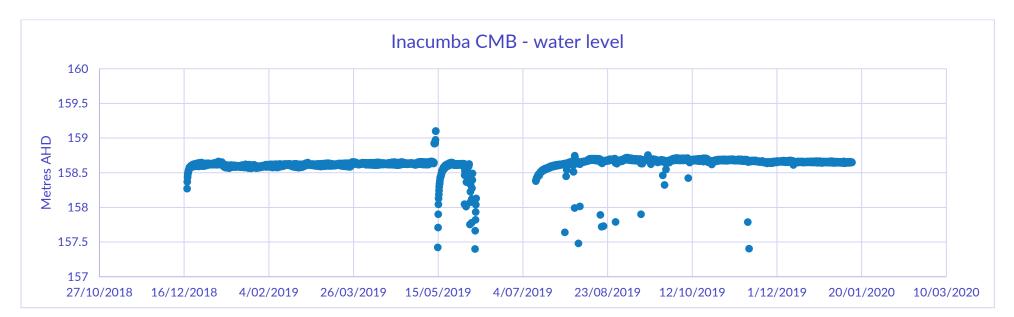


Figure 6: Water level logger data for Inacumba CMB. The change in standing water levels that can be observed is due to pumping activities both in the monitored bores and from nearby bores.

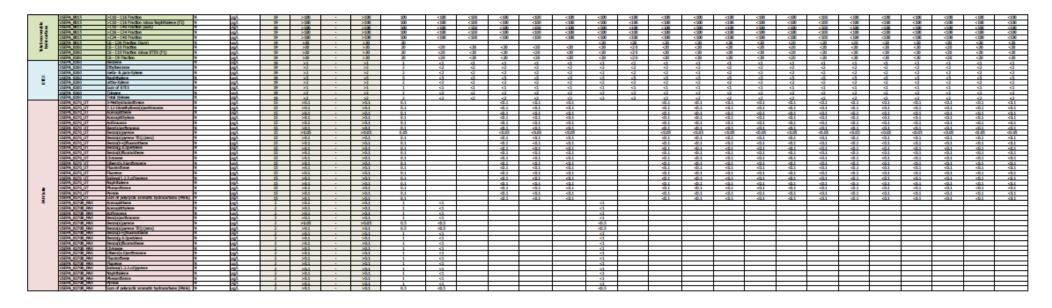
Appendix 1

	CHEMICAL NAME	9/12/2018 1:30	14/07/2019 2:00	24/07/2019 1:50	31/07/2019 11:00	6/08/2019 10:15	14/00/0010 5:00	10.000.0010.7.20	27/08/2019 12:20	28/08/2019 7:05	10/09/2019 4:00	11/09/2019 8:30	25/09/2019 7:45	26/00/2010 6/60	9/10/2019 7:40	10/00/00/0 6:00	22/10/2019 8:00	22/10/2010 6:10	14/11/2019 7:00	15/11/2019 10:05
		-11				4-4-4														
	Total Alkalinity as CaCO3	396	467	424	419	424	441	410	407	409	412	414	419	418	251	389	393	395	418	420
	Bectrical Conductivity @ 25°C	1290	1330	1400	1410	1410	1320	1300	1310	1300	1360	1360	1300	1300	886	1290	1300	1300	1310	1310
	Total Dissolved Solids @180°C	818	805	805	789	812	835	786	894	837	862	830	862	847	639	928	860	862	836	835
	Suspended Solids	-6	<5	4	<5	- 6	4	- 6	4	<5	4	4	- 6	-6	40	6	<5	4	4	4
	Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Mercury	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Caldum	140	147	152	149	148	141	127	141	141	134	133	144	139	109	136	137	136	149	144
	Magnesium	59	60	63	62	63	54	53	56	57	55	55	58	60	37	57	55	54	58	55
	Potassium	12	13	12	12	12	12	11	11	12	12	12	12	12	8	12	11	11	12	11
	Chioride	105	112	109	112	110	108	107	112	107	110	109	114	113	65	113	109	110	109	110
	Ruorde	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.5	0.6	0.7	0.7	0.6	0.6
	pH - Lab	8.16	7.78	7.4	7.27	7.41	7.37	8.02	7.96	8.08	7.58	7.73	7.93	7.94	7.64	7.77	7.82	7.83	7.66	7.72
	Nitrite as N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Nitrate as N	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sulfate as SO4 2-	206	139		177		168	175	164	174	164	170	181	175	132	178	168	162	188	172
	Sulfate as SO4 2-	1.42	0.43	180	1//	164														⊢ −−−−
	Gross alpha	0.78																		⊢ −−−−
	Gross beta activity - 40K	0.76	0.21	0.79	0.86	0.87		0.75	0.67	0.77	0.72	0.35	0.83	0.91	0.77	0.8	0.75	0.84	0.84	0.74
-	Gress alpha Gress alpha	<u> </u>		0.79	0.00	0.67	1.1	0.75	0.67	0.77	0.72	0.35	0.65	0.91	0.77	0.0	0.75	0.04	0.04	0.74
1	Gross beta activity - 40K	<u> </u>		0.46	0.44	0.45		0.4	0.27	0.34	0.47	<0.1	0.42	0.46	0.37	0.43	0.34	0.35	0.36	0.29
-	Gross beta activity - 40K			0.40	UV94	0.45	<1.1	0.4	0.27	0.34	0.47	400.1	0.42	0,40	0.37	0.45	0.54	0.35	0.36	0.29
6	Arsenic	0.002	0.004	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.002	0.005	0.005	0.005	0.006	0.004	0.004	0.004
2	Arsenic	0.002	0.001	0.006	0.007	0.007	0.008	0.008	0.006	0.007	0.007	0.014	0.002	0.006	0.005	0.006	0.005	0.005	0.005	0.004
ŝ	Barlum	0.038	0.043	0.046	0.047	0.039	0.044	0.043	0.046	0.047	0.044	0.044	0.022	0.044	0.043	0.044	0.043	0.043	0.047	0.044
a a	Barlum	0.04	0.053	0.049	0.048	0.048	0.048	0.049	0.044	0.044	0.05	0.052	0.032	0.048	0.046	0.046	0.048	0.046	0.043	0.043
8	Boron	0.18	0.18	0.19	0.19	0.19	0.18	0.19	0.18	0.18	0.17	0.17	0.06	0.2	0.18	0.17	0.17	0.17	0.18	0.17
Ē	Boron	0.18	0.19	0.17	0.17	0.17	0.18	0.21	0.2	0.2	0.2	0.2	0.09	0.18	0.18	0.18	0.19	0.19	0.16	0.17
-	Cadmium	0.0002	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
j j	Cadmium	0.0002	0.0002	0.0002	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
8	Chromium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Chromium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
	Copper	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper	<0.001	<0.001	0.015	0.013	0.002	<0.001	0.01	<0.001	0.001	0.003	0.011	0.007	0.007	0.008	0.005	0.01	0.007	0.001	<0.001
	Iron	<0.05	0.15	0.25	0.22	<0.05	0.34	0.45	0.44	0.4	0.7	0.26	0.27	0.41	0.35	0.53	<0.05	0.07	0.56	0.46
	Iron	0.09	0.32	0.35	0.28	0.21	0.41	0.87	0.21	0.49	0.86	3.54	0.44	0.53	0.43	1.82	0.94	0.52	0.68	0.5
	Lead	<0.001	0.003	0.002	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Lead	<0.001	0.002	0.028	0.021	0.005	0.006	0.009	<0.001	0.004	0.005	0.016	0.003	0.003	0.003	0.008	0.008	0.004	0.002	0.002
	Lithium	0.07	0.057	0.073	0.073	0.069	0.066	0.076	0.068	0.065	0.064	0.065	0.021	0.076	0.07	0.066	0.066	0.065	0.07	0.063
	Uthium	0.064	0.057	0.069	0.072	0.075	0.069	0.076	0.08	0.078	0.075	0.076	0.031	0.066	0.064	0.066	0.068	0.069	0.063	0.066
	Manganese	0.028	0.008	0.018	0.016	0.016	0.015	0.019	0.016	0.016	0.019	0.046	0.007	0.017	0.016	0.027	0.019	0.016	0.018	0.017
	Manganese	0.03	0.008	0.018	0.017	0.017	0.016	0.022	0.016	0.017	0.022	0.058	0.011	0.017	0.017	0.031	0.024	0.018	0.018	0.016
	Selenium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Selenium	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Silver	<0.001	l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Silver Strontum	<0.001 0.732	L	<0.001	<0.001 0.835	<0.001 0.819	<0.001 0.786	<0.001 0.781	<0.001 0.804	<0.001 0.794	<0.001 0.766	<0.001 0.775	<0.001 0.308	<0.001 0.862	<0.001 0.76	<0.001 0.787	<0.001 0.796	<0.001 0.786	<0.001 0.796	<0.001 0.764
	Strontum	0.732		0.84	0.835	0.819	0.786	0.781	0.804	0.794	0.766	0.775	0.546	0.862	0.834	0.787	0.796	0.786	0.796	0.754
	Rec	0.1	0.01	0.068	0.034	0.033	0.027	0.047	0.035	0.024	0.04	0.013	0.015	0.034	0.023	0.019	0.019	0.016	0.016	0.013
	Zinc	0.103	0.01	0.098	0.095	0.049	0.034	0.064	0.026	0.024	0.049	0.058	0.024	0.045	0.035	0.052	0.069	0.044	0.024	0.018
	Ethane	0.103	<1	<1	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2	Methane		4	4	4	4	4	4	4	4	4	4	4	4	<1	d	4	4	4	4
8	Propane		<1	4	<1	4	4	4	4	4	4	4	4	4	<1	d	4	4	4	4
헐	Ethane	<10		~4		~4		- 44				~4	~4			~4	~4	~4	- 44	~4
-	Methane	<10	l																	├ ───┤
8	Propane	<10		l				l				l								├ ───┤
	PTOPARE	<10																		

TANUMBIRINI 2 WATER SUPPLY BORE - RN040930 - Control Monitoring Bore

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Appendix 1 cont.



Appendix	1 cont.
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TANUMBIRINI-1/2 IMB (GRF)

APHA_311 APHA_311 APHA_312 APHA_312 APHA_312 APHA_312 APHA_312 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 CSN_75_1 USEPA_60 USE	2510_B 2540_C 2540_D 3112_CV_FIMS 3112_CV_FIMS 3120 3120 3120	Total Alkalinity as CaCO3 Electrical Conductivity @ 25°C Total Dissolved Solids @180°C Suspended Solids Mercury Mercury Calcium Magnesium Potassium Chloride Fluoride	N N D T D D D D D	mg/L µS/cm mg/L mg/L mg/L mg/L mg/L mg/L	2 2 2 2 2 2 2 2 2	416 1320 853 6 <0.0001	418 1320 857.5 7	420 1320 862 8	1 1 10	416 1320 853	420 1320 862	388 1310
APHA 25- APHA 25- APHA 25- APHA 31- APHA 31- APHA 31- APHA 31- APHA 31- APHA 31- APHA 31- APHA 45- APHA 45- APHA 45- APHA 45- CSN 75- CSN 75-	2540 C 2540 D 3112 CV_FIMS 3112 CV_FIMS 3120 3120 3120 3120 4500 Cl 4500 F_C 4500 F_C 4500 NO2 B	Total Dissolved Solids @180°C Suspended Solids Mercury Calcium Magnesium Potassium Chloride	T N D T D D D D	mg/L mg/L mg/L mg/L mg/L	2 2 2 2	853 6 <0.0001	857.5	862	10			
APHA 25- APHA 25- APHA 31- APHA 31- APHA 31- APHA 31- APHA 45- APHA 45- APH	2540 D 3112 CV FIMS 3112 CV FIMS 3120 3120 4500 Cl 4500 F C 4500 H B 4500 NO2 B	Suspended Solids Mercury Calcium Magnesium Potassium Chloride	N D T D D D	mg/L mg/L mg/L mg/L	2 2 2	6 <0.0001				853	867	070
APHA 311 APHA 311 APHA 311 APHA 311 APHA 311 APHA 312 APHA 450 APHA 450 APH	3112_CV_FIMS 3112_CV_FIMS 3120 3120 3120 3120 4500_Cl 4500_Cl 4500_Cl 4500_F_C 4500_NO2_B	Mercury Mercury Calcium Magnesium Potassium Chloride	D T D D D	mg/L mg/L mg/L	2	<0.0001	7	0				878
APHA_311 APHA_311 APHA_312 APHA_312 APHA_312 APHA_312 APHA_312 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 CSN_75_1 USEPA_60 USE	3112_CV_FIMS 3120 3120 3120 4500_Cl 4500_F_C 4500_H_B 4500_NO2_B	Mercury Calcium Magnesium Potassium Chloride	T D D D	mg/L mg/L	2			8	5	6	8	7
APHA_311 APHA_311 APHA_312 APHA_312 APHA_312 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 APHA_450 CSN.75_1 CSN.75_2 CSN.75_2 USEPA_60 USE	3120 3120 3120 4500_Cl 4500_F_C 4500_H_B 4500_NO2_B	Calcium Magnesium Potassium Chloride	D D D	mg/L	-	0.0004	-	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
APHA 31: APHA 45: APHA 45: APHA 45: APHA 45: APHA 45: APHA 45: APHA 45: APHA 45: APHA 45: CSN 75.2 CSN	3120 3120 4500_Cl 4500_F_C 4500_H_B 4500_NO2_B	Magnesium Potassium Chloride	D		2	< 0.0001	-	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
APHA 31: APHA 450 APHA 450 APHA 450 APHA 450 APHA 450 APHA 450 APHA 450 CSN 75 CSN 75	3120 4500_Cl 4500_F_C 4500_H_B 4500_NO2_B	Potassium Chloride	D	mg/L		151	151.5	152	1	151	152	140
General Construction of the construction of th	4500_Cl 4500_F_C 4500_H_B 4500_NO2_B	Chloride			2	57	57.5	58	1	57	58	57
APHA_453 APHA_453 APHA_453 APHA_453 APHA_455 CSN.75.7 CSN	4500_F_C 4500_H_B 4500_NO2_B			ma/L	2	12	12	12	1	12	12	13
APHA 453 APHA 453 APH	4500 H B 4500 NO2 B	Fluoride	N	mg/L	2	110	110.5	111	1	111	110	110
General Applications and metal Applications and metal CSN 75.2 CSN	4500_NO2_B		N	mg/L	2	0.6	0.6	0.6	0.1	0.6	0.6	0.6
APHA 453 APHA 453 APHA 453 APHA 455 CSN 25. CSN 25. CS	4500_NO2_B	pH - Lab	N	pH Unit	2	7,46	7.47	7,48	0.01	7.46	7.48	7,28
General and Control of		Nitrite as N	N	ma/L	2	<0.01	-	< 0.01	0.01	<0.01	<0.01	<0.01
APHA 45: CSN_75_ CSN_75_ USEPA 6: USEPA 6:		Nitrate as N	N	mg/L	2	< 0.01	-	< 0.01	0.01	< 0.01	< 0.01	< 0.01
CSN 75 CSN 75	4500 SO4 E	Sulfate as SO4 2-	D	mg/L	2	186	186.5	187	1	187	186	162
CSN 757 USEPA 66 USEPA 60 USEPA 60 USEP	75 7611 75 7612	Gross alpha	N	Bg/L	2	0.79	0.805	0.82	0.05	0.79	0.82	0.54
USEPA 66 USEPA 60 USEPA 60 USE	75 7611 75 7612	Gross beta activity - 40K	N	Bg/L	2	0.35	0.355	0.36	0.1	0.36	0.35	0.32
USEPA_60 USE		Arsenic	D	mg/L	2	0.004	0.004	0.004	0.001	0.004	0.004	0.003
USEPA 60 USEPA 60 USE		Arsenic	T	mg/L	2	0.004	0.004	0.004	0.001	0.004	0.004	0.039
USEPA 60 USEPA 60 USE	-	Barium	D	mg/L	2	0.045	0.0455	0.046	0.001	0.004	0.046	0.033
Si AR432U B0 AG42U Si AR442U B0 <td< td=""><td></td><td>Barium</td><td>T</td><td>mg/L</td><td>2</td><td>0.043</td><td>0.0435</td><td>0.040</td><td>0.001</td><td>0.043</td><td>0.040</td><td>0.042</td></td<>		Barium	T	mg/L	2	0.043	0.0435	0.040	0.001	0.043	0.040	0.042
0 USEPA_66 USEPA_66 USEPA_66		Boron	D	mg/L	2	0.19	0.19	0.19	0.05	0.19	0.19	0.042
USEPA 66 USEPA 67 USEPA 60 USEPA 60 USE		Boron	T	mg/L	2	0.17	0.17	0.17	0.05	0.17	0.17	0.08
926 USEPA 60 USEPA 60	-	Cadmium	D	mg/L	2	<0.0001	0.17	<0.0001	0.0001	<0.0001	<0.0001	<0.00
e USEPA 60 USEPA 60		Cadmium	T	mg/L	2	<0.0001		<0.0001	0.0001	<0.0001	<0.0001	<0.000
USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60		Chromium	D	mg/L	2	<0.001	-	<0.001	0.001	<0.001	<0.001	<0.00
USEPA_60	-	Chromium	T	mg/L	2	<0.001	-	< 0.001	0.001	<0.001	<0.001	<0.00
USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60	-	Copper	D	mg/L	2	<0.001	-	<0.001	0.001	<0.001	<0.001	<0.00
USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60		Copper	T	mg/L mg/L	2	0.001	0.003	0.001	0.001	0.001	0.001	<0.00
USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60		Iron	D	mg/L	2	3.68	4.205	4.73	0.001	3.68	4.73	<0.00
USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60		Iron	T		-	4.12			0.05	4.12	6.19	4.48
USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60 USEPA_60		Lead	D	mg/L mg/L	2	<0.001	5.155	6.19 <0.001	0.05	<0.001	<0.001	4.48
USEPA 60 USEPA 60 USEPA 60 USEPA 60 USEPA 60 USEPA 60		Lead	т	mg/L	2	0.001	0.003	0.001	0.001	<0.001	<0.001	<0.00
USEPA 60 USEPA 60 USEPA 60 USEPA 60 USEPA 60		Lithium	D		2	0.002	0.0705	0.071	0.001	0.004	0.002	0.002
USEPA_60 USEPA_60 USEPA_60 USEPA_60		Lithium	T	mg/L	2	0.065	0.0705	0.069	0.001	0.069	0.065	0.074
USEPA_60 USEPA_60 USEPA_60			D	mg/L	-							
USEPA_60 USEPA_60	-	Manganese	т Т	mg/L	2	0.05	0.056	0.062	0.001	0.05	0.062	0.042
USEPA_60		Manganese Selenium	D	mg/L	2	0.052 <0.01		<0.062	0.001 0.01	0.052	<0.062	
		Selenium	р т	mg/L	2	<0.01	-	<0.01	0.01	<0.01 <0.01	<0.01 <0.01	<0.01
LICEDA CO		Selenium Silver		mg/L	-		-					
USEPA_60	-		D	mg/L	2	<0.001	-	< 0.001	0.001	< 0.001	<0.001	<0.00
USEPA_60		Silver	T	mg/L	2	<0.001	-	< 0.001	0.001	< 0.001	<0.001	<0.00
USEPA_60		Strontium	D	mg/L	2	0.794	0.794	0.794	0.001	0.794	0.794	0.854
		Strontium	T	mg/L	2	0.763	0.8045	0.846	0.001	0.763	0.846	0.764
	A_6020	Zinc	D	mg/L	2	0.006	0.0075	0.009	0.005	0.006	0.009	0.011
USEPA_60	A_6020 A_6020	Zinc	T	mg/L	2	0.015	0.0185	0.022	0.005	0.015	0.022	0.013
8 EP033-LL	A_6020 A_6020 A_6020	Ethane	N	µg/L	2	<1		<1	1	<1	<1	<1
변 종 EP033-LL EP033-LL	A_6020 A_6020 A_6020 3-LL	Methane	N	µg/L	2	3	3.5	4	1	3	4	3

	USEPA 8015	>C10 - C16 Fraction	N	ug/L	1	<100	-	<100	100		<100	<100
	USEPA 8015	>C10 - C16 Fraction minus Naphthalen	N	ug/L	1	<100	-	<100	100		<100	<100
d de	USEPA 8015	>C10 - C40 Fraction (sum)	N	µg/L	1	<100		<100	100		<100	<100
verabl	USEPA 8015	>C16 - C34 Fraction	N	µg/L	1	<100		<100	100		<100	<100
o Tie	USEPA 8015	>C34 - C40 Fraction	N	µg/L	1	<100	-	<100	100		<100	<100
e č	USEPA 8015	C6 - C36 Fraction (Sum)	N	µg/L	1	<20	-	<20	20		<20	80
fotal I	USEPA 8260	C6 - C10 Fraction	N	ug/L	1	<20	-	<20	20		<20	<20
ĕ -	USEPA 8260	C6 - C10 Fraction minus BTEX (F1)	N	µg/L	1	<20	-	<20	20		<20	<20
	USEPA 8260	C6 - C9 Fraction	N	ug/L	1	<20	-	<20	20		<20	<20
	USEPA 8260	Benzene	N	ug/L	2	<1	-	<1	1	<1	<1	<1
	USEPA 8260	Ethylbenzene	N	ug/L	2	<2	-	<2	2	<2	<2	<2
	USEPA 8260	meta- & para-Xylene	N	µg/L	2	<2		<2	2	<2	<2	<2
8	USEPA 8260	Naphthalene	N	ug/L	2	<5	-	<5	5	<5	<5	<5
E E	USEPA 8260	ortho-Xylene	N	µg/L	2	<2	-	<2	2	<2	<2	<2
_	USEPA 8260	Sum of BTEX	N	ug/L	2	<1	-	<1	1	<1	<1	<1
	USEPA 8260	Toluene	N	ug/L	2	<2	-	<2	2	<2	<2	<2
	USEPA 8260	Total Xylenes	N	ug/L	2	<2	-	<2	2	<2	<2	<2
	USEPA 8270 UT	3-Methylcholanthrene	N	ua/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA 8270 UT	7.12-Dimethylbenz(a)anthracene	N	ug/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA 8270 UT	Acenaphthene	N	ua/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA 8270 UT	Acenaphthylene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA 8270 UT	Anthracene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA 8270 UT	Benz(a)anthracene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA 8270 UT	Benzo(a)pyrene	N	µg/L	2	< 0.05	-	< 0.05	0.05	< 0.05	< 0.05	<0.05
	USEPA 8270 UT	Benzo(a)pyrene TEQ (zero)	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
g	USEPA_8270_UT	Benzo(b+j)fluoranthene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
Suit	USEPA_8270_UT	Benzo(g.h.i)perylene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
PAH	USEPA_8270_UT	Benzo(k)fluoranthene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
P	USEPA_8270_UT	Chrysene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Dibenz(a.h)anthracene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Fluoranthene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Fluorene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Indeno(1.2.3.cd)pyrene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Naphthalene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Phenanthrene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Pyrene	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1
	USEPA_8270_UT	Sum of polycyclic aromatic hydrocarbor	N	µg/L	2	<0.1	-	<0.1	0.1	<0.1	<0.1	<0.1

INACUMBA 1 WATER SUPPLY BORE - RN040931 - Control Monitoring Bore

LABORATORY METHOD	CHEMICAL NAME	FRACTION D/T/N	RESULT UNIT	No. results	Min	Median	Max	LIMIT OF DETECTION	17/12/2018 2:30	29/07/2019 5:40	3/08/2019 10:30	6/08/2019 1:30	18/08/2019 3:30	27/08/2019 4:00	20/00/2019 9:10	11/09/2019 3:50	12/09/2019 8:00	25/09/2019 1:25	26/09/3019 8:40	9/10/0019 12:25	10/10/2019 8:20	22/18/2019 1:25	23/10/2019 8:43	13/11/
APHA_2220 B	Total Alkalinity as CaCO3	N	mg/L	16	363	450.5	470	1	363	451	461	463		459	409	447	455	400	456	364	426	366	400	
APHA 2510 B	Electrical Conductivity @ 25°C	N	µ5/cm	16	1960	\$900	2940	1	1960	1900	1940	1930	1830	1830	1810	\$960	1890	\$679	1790	1580	1770	1590	1720	
APHA 2540 C	Total Depoived Solids @ SB0°C	T	ma/L	16	976	1185	1200	50	976	1130	1170	1160	1200	1240	1230	1258	1220	1150	1220	1160	1330	2040	1170	+
APHA 2540 D	Suspended Solids	N	mail	16		21	36	5	35	15	13	20	<5	11	36		20	24	23	25	31	21	30	1
APHA 3112 CV FIMS	Mercury	D	mol	16	<0.0001		<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
APHA 3112 CV FIMS	Mercury	T	mg/L	16	<0.0001		<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<8.8001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-
APHA 3120	Caldum	D	mo/L	16	(m)	141	163	1	134	150	263	159	130	962	155	139	143	154	147	90	133	660	122	\mathbf{t}
APHA 2120	Hagnesium	0	mal	16	66	194.5	122	1	80	209	117	115	97	122	106	103	102	182	114	\$02	106	90	\$02	+
APHA 2120	Potestum	D	mol	16	22	27	29	1	22	29	28	28	25	28	27	26	26	27	28	22	26	27	32	-
AP16A 4500 CI	Chioride	N	mg/L	16	140	155	160	1	140	154	156	155	151	159	152	155	156	160	159	156	159	150	153	\pm
APNA 4500 F C	Fluoride	N	ma/L	16	1.0	2.65	1	0.1	1.0	2.7	2.8	2.7	3	2.7	2.8	2.6	2.7	2.5	2.6	2.2	2.5	2.3	2.6	+
AP164 4500 H B	pH - Lab	Ň	pH Link	16	7.86	2.72	0.11	0.01	8.06	7.42	7.36	1.0	0.02	7.96		7.51	2.43	0.11	7.65	7.90	7.63	7.73	7.51	+
AP10A 4500 NCC 8	Nitrite as N		- mol	16	(0.01	140	(0.01	0.01	(0.01	(0.05	<0.01	(1.0)	(0.01	(0.05	(0.01	(0.05	(1.1)	(0.01	(1.0)	c0.01	(1.01	(0.01	<0.01	+
APHA 4500 NOD F	Nitrate as N		mal	16	0.02	0.09	2.12	0.01	0.62	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.12	<0.01	+-
AP16A 4500 SO4 E	Sulfate as \$04.2-	6	mg/L	16	304	362	451	1	328	444	451	450	296	360	366	380	384	343	177	346	407	304	350	+
ASTM 07282-06	Gross alpha	N	Ref.		17	17	17	0.05	17															+
ASTM 07283-06	Gross beb activity - 40K		Ref.		0.04	0.04	0.84	0.1	0.84			<u> </u>						<u> </u>					<u> </u>	+-
CSN 75 7611 75 7612			lig/L	15	0.10	0.27	8.4	0.05	9.97	0.27	0.27	0.26	0.36	0.32	8.24	0.27	0.25	0.27	0.35	0.24	0.4	0.18	0.2	+-
	Gross beb activity - 40K		101	15	0.10	0.26	0.33	0.1	<u> </u>	0.33	0.2	0.28	0.26	0.28	0.27	0.12	0.2	0.27	0.28	0.22	0.34	0.10	0.16	+-
				16	0.001				0.000															+
LISEPA_6020	Artenic Artenic	0	mg/L	16		0.001	0.003	0.001	0.003	0.001	0.002	<0.001	0.002	0.002	0.001	0.001	0.001	<0.001 0.002	<0.005	<0.005	<0.001	<0.001	0.001	+-
LISEPA 6020	Barkum	-	mg/L		0.001				0.81			0.001			0.002				0.802	0.002	0.002		0.002	-
		P T	ma/L	16	0.019	0.0215	0.047	0.005	0.028	0.006	0.032	0.026	0.029	0.02	0.033	0.031	0.021	0.019	0.026	0.027	0.032	0.032	0.041	+
LISEPA_6020	larium		mg/L	16	0.03	0.037	0.048	0.005	0.036	0.030	0.024	0.034	0.032	0.03	0.033	0.037	0.030	0.037	0.04	0.035	0.044	0.039	0.040	+
USEPA_6020	Boron	D	mg/L	16	0.12	0.25	0.31	0.05	0.31	0.26	0.27	0.28	0.27	0.22	0.25	0.24	0.24	0.12	0.28	0.23	0.25	0.23	0.34	+-
LISEPA_6020	Boron	T	mg/L	16	0.24	0.26	0.3	0.05	0.27	0.25	0.34	0.26	0.3	0.3	0.3	0.28	0.3	0.26	0.25	0.26	0.26	0.26	0.28	_
LISEPA_6020	Cadmium	D	mg/L	16	<0.0001		<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
LISEPA_6820	Cadmium	T	mg/L	16	<0.0001		<8.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<8.0001	<0.0001	<8.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
LISEPA_6020	Chromium	D	mg/L	16	<0.001		<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	
LISERA 6620	Chromium	T	ma/L	16	<0.001		<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
LISEPA_6820	Copper	D	mg/L	16	<0.001	-	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	
LISEPA_6020	Copper	T	ma/L	16	0.001	0.001	0.002	0.001	0.002	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.005	<0.001	<0.001	
USEPA_6820	Linon .	D	mg/L	16	0.24	2.49	9.58	0.05	<0.05	2.2	2.25	2.62	2.49	5.37	8.65	1.39	6.37	<0.05	9.58	<0.05	0.24	0.66	4.97	
LISEPA_6020	Dron .	T	mg/L	16	147	10.41	19.1	0.05	7.33	3.67	8.28	9.52	4.28	\$.7	22.3	5.03	11.3	14.6	15.4	13.1	29.1	12	15.5	
USEPA_6820	Lead	D	mg/L	16	<8.001	-	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	
USEPA_6820	Laad	T	mg/L	16	<0.001		<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
LISEPA_6020	Uthium	D	mg/L	16	0.19	0.4225	0.465	0.001	0.415	0.405	0.396	0.423	0.424	0.440	0.424	0.422	0.413	0.19	0.405	0.350	0.394	0.44	0.443	
USEPA_6820	Uthium	T	mg/L	16	0.365	0.449	0.515	0.001	0.365	0.475	0.435	0.463	0.452	0.503	0.515	0.431	0.440	0.404	0.461	0.45	0.433	0.408	0.400	
LISEPA 6620	Mancanetee	D	ma/L	16	0.081	0.1605	0.249	0.005	0.142	0.203	0.001	0.234	0.133	0.21	0.249	0.123	0.226	0.108	0.232	0.354	0.197	0.172	0.509	
LISEPA_6820	Manganese	T	mg/L	16	0.097	0.213	0.269	0.001	0.163	0.221	0.231	0.255	0.137	0.153	0.269	0.137	0.349	0.213	0.237	0.291	0.218	0.2	0.213	
LISEPA_6820	Selenium	D	ma/L	16	<0.01		<0.01	0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
LISEPA_6020	Selenium	Т	mg/L	16	<0.01		<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1
LISEPA_6020	Silver	D	mg/L	16	<0.001		<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	
LISEPA_6020	Silver	T	mg/L	16	<0.001	-	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	
LISEPA_6620	Strongum	D	mg/L	16	0.428	0.925	1.02	0.001	0.668	0.957	1.02	0.99	0.904	0.974	0.90	0.995	0.994	0.428	1	0.671	0.871	0.666	0.853	
LISERA 6820	Strontium	T	mg/L	16	0.729	0.959	1.95	0.005	0.635	0.958	1	1.02	1.02	1.13	1.56	0.946	0.97	0.079	1.00	0.729	0.959	0.729	0.096	T-
LISEPA_6620	Zinc	D	mg/L	16	0.012	0.004	0.098	0.005	0.014	0.047	0.076	0.017	0.044	0.05	0.023	0.004	0.016	0.098	0.012	<0.005	<0.005	<0.005	0.012	-
LISEPA 6020	Zinc	T	mal	16	0.001	0.049	0.473	0.005	0.045	0.052	0.001	0.067	0.056	0.05	0.064	0.04	0.021	0.473	0.047	0.043	0.044	0.06	0.040	\mathbf{T}
EP123-LL	12010	N	US/L	15	<1		<1	1		<1	<d< td=""><td><1</td><td><1</td><td><1</td><td>d</td><td><1</td><td><1</td><td><1</td><td>d</td><td>d</td><td>d</td><td><1</td><td><1</td><td>-</td></d<>	<1	<1	<1	d	<1	<1	<1	d	d	d	<1	<1	-
EPERD-LL	Helbane		101	15	e1.		ci	1	I	d	d	<i>d</i>	d	ct		ct	d	d	d	d	d	<1 C	<i>d</i>	+
EP123-11	Propage		un/L	15	d		d			d	a	d	d	et .	a d	et .	a	d	a	a	a	d	d	+

	LISEPA_0015	>Cs0 - Cs6 Praction	N	Hg/L	16	190	190	190	100	100	< \$00	<100	<100	<100	<\$00	<100	< 900	<100	<100	<100	<100	<100	<100	<100	<100
	LISEPA 0015	>CS0 - CS6 Fraction minus Nachthail	N	ug/L	16	100	190	100	100	100	< 900	<100	<100	<100	< \$900	<100	< \$900	<100	<100	<100	<100	<100	<100	<100	<100
±	USEPA 0015	>CS0 - C40 Fraction (sum)	N	Hg/L	16	100	240	380	100	300	< 100	200	<100	<100	< \$200	<100	< 900	<100	<100	<100	<100	<100	<100	<100	<100
55	LISEPA BULS	>C16 - C34 Praction	N	101	16	100	190	280	100	200	< 900	500	<100	<100	<\$00	<100	< 900	<100	<100	<100	<100	<100	<100	<100	<100
2.1	LISEPA 0015	>C34 - C40 Fraction		Jug/L	16	< 500		<100	100	<100	< 900	<100	<100	<100	< 100	<100	< 900	<100	<100	<100	<100	<100	<100	<100	<100
분질	LISEPA DOLS	C6 - C86 Practice (Sum)		100	12	60	60	60	20	1.449	2000	1000	1000	<20	<20	<20	<28	<20	<29	<20	<20	<20	<28	<20	60
32									20	- 34	- 24	- 54	- 34												
21	LISEPA_8250	C6 - C10 Praction		Hg/L	16	<20	-	<20	20	<20	<28	<20	<20	<20	<20	<20	<28	<20	<28	<20	<20	<20	<29	<20	<20
	LISEPA_8250	C6 - C10 Practice minus BTEX (Fs)	-	Hg/L	16	<28	-	<20	20	<20	<28	439	<20	<28	<28	48	28	<20	49	430	<20	<20	49	439	<20
	LISEPA_8250	C6 - C9 Praction	N	Hg/L	16	<28		<20	20	<20	<29	<20	<20	<20	<28	<20	<29	<20	<29	<20	<20	<20	<28	<20	<20
	LISEPA_8250	Bergene	N	Mg/L	16	<1		4	1	<1	<1	4	4	<1	<1	4	<1	4	<1	4	4	4	<1	4	<1
	LISEPA 6250	Cov bendere	N	Jun /L	16	<2		<2	2	<2	<2		4	<2	<2		2	<2	<2	4	<2	<2	<2	4	<2
	USEPA_8250	meta- 8 para-Xylene	N	Hg/L	16	<2	-	<2	2	<2	<2	4	4	<2	<2	4	<2	<2	<2	4	42	<2	<2	\$	<2
8	LISEPA 8250	Naphthalene	N	Hg/L	16	<5		<5	5	<\$	<5	4	4	<\$	<5	4	<5	4	<\$	6	4		<5	4	<\$
E	LISEPA 8250	ofthe-XMene	N	us/L	16	<2		<2	2	<2	<2	<2	- 2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
-	LISEPA 8250	Sum of BITEX	N	101	16	2		d	à	<1	2		a		d		d	d	4	d	d	d		a	<1
	LISEPA 8250	Tokene	N	ug/L	16				4	<2				<2	<2				<2				<2		<2
	LISEPA 8250	Total Xylenes	-	Here and a second	16			4	4		4	4	4		4	4	4	4		4	4	4	42	4	<2
					16					56				56											
	LISEPA 8270 UT	3-Methykholanthrene	N	us/L		<0.1		<0.1	0.1		-0.1	40.1	<0.1		40.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<8.1
	LISEPA_8270_UT	7.12-Direthylberz(s)anthracene		Hg/L	14	<0.1	-	<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<8.5
	LISEPA_8270_UT	Acenaphthene	N	Hg/L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
	LISEPA 6270 UT	Acer aphth viene	N	LOL L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
	USEPA_8270_UT	Anthracene	N	Hg/L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
	LISEPA_8270_UT	Berz(s)anthracene	N	Hg/L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<81	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
	LISEPA_8270_UT	Berzo(x)pyrene	N	Hg/L	14	<0.05		<0.05	0.05		<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	LISEPA 8270 UT	Benzo(a)pyrene TBQ (zero)	N	Hg/L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
	USERA 6270 UT	Benzo(b+()fluoranthene	N	Hg/L	14	<0.1	-	<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
	LISEPA 8270 UT	Berzo(g.h./sperviene	N	Jag L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	LISEPA 8270 UT	Berzo Kinuoranthene	N	141	14	<0.1		-0.1	0.1		40.1	40.1	<0.1		40.1	<1.1	<0.1	<0.1	-0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1
	LISEPA 8270 UT	Chrysene		100	14	<0.1		-0.1	0.1		<0.1	<0.1	<0.1		-0.1	(8.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	LISEPA 8270 UT	Obergia Marthracene	-	Laft.	14	<0.1		-0.1	0.1		<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	LISEPA 8270 UT	Fluoranthene		101	14	<0.1			0.1		40.1	40.1	<0.1		40.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1
	LISEPA 8270 UT	Ruorene		100	14	<0.1					40.1							<0.1				<0.1 <0.1		<0.1	<8.1
			N				•		0.1			<0.1	<0.1				<0.1			<0.1	<0.1		<0.1		
	LISEPA_8270_UT	Indeno(1.2.3.of)pyrene	N	Hg/L	14	<0.1	-	<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<0.1
	LISEPA 8270 UT	Naphthalene	N	Mg/L	24	<0.1	-	<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
2	LISEPA_8270_UT	Phenanthrene	N	Log(L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	-0.1	<0.1	<0.1	<0.1	-0.1	<0.1	<8.1
8	USEPA_6270_UT	Pynese	N	Hg/L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<8.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1
	USEPA_8270_UT	Sum of polycyclic aromatic hydrocart	N	Hg/L	14	<0.1		<0.1	0.1		<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<8.1	<0.1	<0.1	<81
~	LISEPA 62708 PAH	Apenaphthene	N	LOA.	1	<1		<1	1	<1															
	LISEPA_82708_PAH	Acenaphthylene	N	Hg/L	1	<1		d	1	<1															
	LISEPA 82708 PAH	Anthracene	N	Hg/L	1	<1		<1 (1	1	4															
	LISEPA 02708 PAH	lienzialanthracene	N	Log L	1	<4		< <u>4</u>	1	<1															
	LISEPA 82708 PAH	Benzo(a)ovrene	N	Jug/L	1	<0.5	-	<0.5	0.5	<0.5															
	LISEPA 82708 PAH	Benzo(a)pynene TEQ (perc)	N	Hall.	1	<0.5		<0.5	0.5	<0.5		· · · · · · · · · · · · · · · · · · ·	· · · · · ·		· · · · ·	1			i			i	i		<u> </u>
	LISEPA 62708 PAH	Benzo(b+Officeranthene		ug/L	1	<1		4	1	<1	1				1	1			i		1	1	i		
	LISEPA 62708 PAH	lienzo(c.h.liperviene	-	100				a a																'	H
	LISEPA 82708 PAH	Encol Chuoranthene	-	101											+									<u> </u>	H
	LISERA 62708 PAH	Chrysene	-			4				<1					+	I				L				t'	t
	LISEPA 62708 PAH	Diberz (s. hianthracene		Hg/L	-			d				L	L									l		 '	t
	LISEPA BUTOB PAH	Puoranthene	N	10.1		<1				<1			<u> </u>											<u> </u>	+
			N	Jak.	-	<1		4		<1		L	L									L			t
	LISEPA_82708_PAH	Ruorene	N	Pg/L	1	<1		<1	1	<1															
	LISEPA_62708_PAH	Indeno(1.2.3.cf)pynene	N	Hg/L	1	<1		< <u>d</u>	1	<1															
	LISEPA_82708_PAH	Naphthalene	N	LOL L	1	<1		4	1	<1															1
	LISEPA_82708_PAH	Phenanthrene	N	Hg/L	1	<1	-	d	1	<1															
	LISEPA 82708 PAH	Pynene	N	Hg/L	1	<1		<1 (1)	1	<1															
	LISEPA 62708 PMH	Sum of polycyclic aromatic hydrocart	N	ug/L	1	<0.5		<0.5	0.5	<0.5															