

Appendix-1

Well Inventory Record surrounding Exploratory Wells

Shallow Wells' Situation in the Study Area

The Inventory records of shallow wells surrounding exploratory wells and central low hills formed by diabase intrusion in the study area are arranged in this **Appendix 1**.

The feature of shallow wells' structure, water use and situation of quality as resident consciousness in the study area is described as follows.

The shallow wells situation of each area such as a) north west part of the study area, b) central and south west part of the study area and c) diabase intrusion area is described in the main report **Chapter 4**, **Paragraph 4.3**.

Shallow Wells in the Study Area (Summary of whole shallow wells in this inventory area)

1) Well structure and water level

Dug wells with concrete cover or block cover reach to 94%. The diffusion rate of hand pump is rather low. Dug well with hand pump is 4% and drilled well with hand pump is 1%. Diameter of Dug wells is 0.8 to 1.2m, total depth is 1.1 to 12.2m, average 5.1m. Water level is 0.0 to 7.7m, average 1.7m.

 Drillrd Well
 Drilled W/HP
 Dug
 Dug+D
 Dug+B
 Dug+D
 Dug+D
 Dug+D
 Dug+D
 Dug+D
 Dug+D
 Dug+B
 Dug+B
 Dug+B
 Dug+B
 Dug+B
 Dug+C
 Dug+C
 Dug+C
 Dug+C/HP
 Drillrd Well
 Drillrd Well
 Drilled W/HP
 Drilled W/HP

Table A 1-2 Well Dimension in the Study Area

			Well Di	mension			
Ground Hi	ight (m)	Total I	Depth (m)	Water	Level (m)	WL(EI	evation, m)
Max.	27	Max.	12.20	Max.	7.69	Max.	21.95
Min.	4	Min.	1.06	Min.	0.01	Min.	2.93
Average	9	Average	5.14	Average	1.68	Average	7.20
Median	8	Median	4.61	Median	1.11	Median	6.67
Mode	8	Mode	4.30	Mode	0.10	Mode	5.16
Total N	102	Total N	100	Total N	98	Total N	98

Figure A.1-1 Well Structure in the Study Area

2) Groundwater use

Drinking water use including domestic water use is 23%, 77% of wells can not use as drilling water. Average water use per well is 13.6 gallon/ day/ person. Average total volume of water use per well is 4,016 gallon/ day.

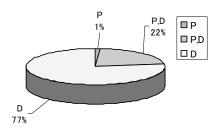


Table A.1-3 Water Use Volume of Well in the Study Area

		Wa	ater Use		_
Pers	son/ Well	Vol./ F	P. (Gal/day)	T. Volume	(Well, Gal/day))
Max.	1500	Max.	20.0		
Min.	8	Min.	3.0		
Average	294	Average	13.6	Average	4,016
Median	250	Median	15.0		
Mode	500	Mode	15.0		
Total N	101	Total N	101		

Figure A.1-2 Use of Water in the Study Area

3) Dry-up Condition and Quality of groundwater

Dry up well in dry season is 29%, and well in which water level goes down in dry season is 29%. 42% of wells are not recognized any dry up situation. The water quality or problem as resident consciousness is as

follows.

- i) 46% of wells has bad water quality situation such as cloudy water (15%), colored water (25%), Dirty water (5%) and Salty water (5%).
- ii) Contamination such as dust/ leaves/ rubbish blowing in, muddy/ rusty/ foamy situation, tadpole/ worm generation and odor is felt in 52% of wells.

Table A.1-4 Water Quality of Wells in the Study Area (by Field Measurement)

				Water	r Quolity				
Temp	o. (oC)	pl	1	EC (mS/cm)	TDS(n	ng/L)	Turbid	ity (NTU)
Max.	31.3	Max.	8.37	Max.	1.000	Max.	94.0	Max.	55.0
Min.	21.6	Min.	4.20	Min.	0.016	Min.	0.0	Min.	15.0
Average	27.8	Average	6.14	Average	0.175	Average	12.9	Average	26.0
Median	27.8	Median	6.25	Median	0.122	Median	7.2	Median	5.0
Mode	28.1	Mode	5.70	Mode	0.065	Mode	0.0	Mode	1.0
Total N	102	Total N	102	Total N	102	Total N	102	Total N	102

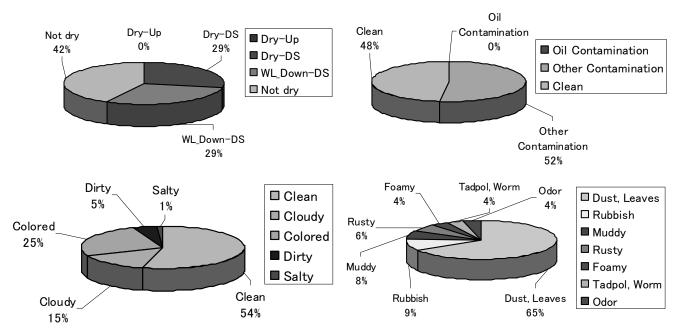


Figure A.1-3 Dry up Situation and Water Quality Consciousness in the Study Area

Table A.1-1 Summary of Well Inventory surrounding Exploratory Wells and Diabase Intrusion Area

			Coordinatio	n				Vell Situatio	n				U	se				Water	Onality				Contamination
Well No.	Community	Eathting	Northing	EL	Type	Head	Casing	Equipment	T. Depth	WL	Dry-up	Purpose	Person	Yield	T.Volume	Т	PH	EC	TDS	Turbidity	Condition	Kind	Description
				(m)				withdrawal	(m)	(m)	Situation			G/day/P	G/day	(°C)		(mS/cm)	(mg/L)	(NTU)			1
OWJ5-1	Duport Road North East, Cow Field	314624	693831	9	1	5	1	2	4.99	1.13	2	2,3	500	15	7500	28.8	6.30	0.093	60	7.5	2,4	2	Dust, Leaves
OWJ5-2	Duport Road North East, Cow Field	314594	693867	9	1	5	1	2	5.87	2.47	4	1,2	500	15		29.2	4.44	0.088	57	6.3	1	3	
OWJ5-3	Duport Road North East, Cow Field	314547	693858	8	1	6	3	2	4.93	1.66	4	2	500	15	7500	28.8	4.92	0.075	49	6.4	1	2	Dust, Leaves
OWJ5-4	Duport Road North East, Cow Field	314690	693798	8	1	5	1	2	1.81	0.01	1	2	450	15	6750	28.4	5.15	0.064	41	5.0	1	2	Dust, Leaves
OWJ5-5	Duport Road North East, Cow Field	314690	693865	10		6	3	2	7.64	3.96	4	2	20	11		29.7	5.16	0.076	49		1	2	Dust, Leaves
OWJ5-6	Duport Road North East, Cow Field	314777	693995	14		5	1	2	10.58	6.77	4	1,2	500			28.8	4.96	0.048	31	10.8	1	3	
OWJ5-7	Duport Road North East, Cow Field	314703	694077	12		5	1	2	7.73	4.03	1	2	500			28.6	4.20	0.066	43			2	Dust
OWJ5-8	Duport Road North East, Cow Field	314797	693864	12		5	1	2	7.39	5.32	0	2	15			29.9	4.41	0.125	81		3	2	Dust, Leaves
OWJ5-9	Duport Road North East, Cow Field	314449	694018	14		5	1	2	7.98	3.36	2	2,3	100		800		4.57	0.690	44		3	2	Dust, Leaves
OWJ5-10	Duport Road North East, Cow Field	314398	693991	12 11			1	2	5.68 5.72	2.05 1.43	4	2.3	26		3 78 5 300	28.4	4.60 5.97	0.036	23	UUIU	2,4	2	Dust, Leaves
OWJ6-1 OWJ6-2	Paynesville Joe Bar, Block G2 Paynesville Joe Bar, Block G2	312993 313070	692905 693007	11			3	2	3.90	0.30	4	2,3	20 500			28.1 27.8	5.97	0.107 0.116	69 75		1	3	Dust, Plastic bags
OWJ6-2 OWJ6-3	Paynesville Joe Bar, Block G2	313203	693028	9		- 0	3	2	1.68	0.04	1	2,3	25			27.3	6.10	0.110	139			- 4	Dust, Flastic bags
OWJ6-3	Paynesville Joe Bar, Block G2	313177	692960	10		6	3	2	3.68	1.06	2	2.3	500			27.0	6.40	0.214	89			2	Dust
OWJ6-5	Paynesville Joe Bar, Block G2	313246	692922	8	Î	6	3	2	3.05	0.68	4	2.3	8	15		27.2	6.27	0.078	50	3.8		- 3	Dust
OWJ6-6	Paynesville Joe Bar, Block G2	313266	692925	8	î	6	3	2	2.80	0.33	4	1.2	800		6400	27.4	6.23	0.195	127			2	Dust, Leaves
OWJ6-7	Paynesville Joe Bar, Block G2	313194	692880	10	1	6	1	2	3.53	1.17	4	2,3	500			27.8	6.24	0.176	114		1,2	2	Dust, Wood
OWJ6-8	Paynesville Joe Bar, Block G2	313160	692892	10		5	1	2	3.15	0.87	1	2,3	500			27.4	6.28	0.154	100			2	Dust, Leaves, Plastic bag
OWJ6-9	Paynesville Joe Bar, Block G2	313133	692863	11	1	6	3	2	4.61	1.00	4	2	250	15	3750	27.7	6.33	0.173	112	2.2	1	3	
OWJ6-10	Paynesville Joe Bar, Block G2	313117	692795	12	1	1	3	2	1.95	1.08	4	2,3	15	20	300	27.0	6.47	0.178	115	21.9	3	2	Smell
OWJ6-11	Paynesville Joe Bar, Block G2	313094	692856	12	1	6	3	1			1	1,2	1,500	15	22500	27.7	6.11	0.177	115	0.0	1	3	
OWJ6-12	Paynesville Joe Bar, Block G2	313101	692886	12		5	1	2	4.22	1.70	2	2	30			27.6	6.17	0.233	151	1.9	1	2	Plastic bags
OWJ6-13	Paynesville Joe Bar, Block G2	313034	692941	11		6	3	2	4.09	0.99	4	2,3	10	15		27.6	6.17	0.102	66			3	
OWJ6-14	Paynesville Joe Bar, Block G2	312967	692998	11		5	3	2	3.45	0.53	1	1,2	500			27.9	5.99	0.058	38			3	
OWJ6-15	Paynesville Joe Bar, Block G2	312943	692974	11		6	3	2	3.90	0.33	2	2,3	100				5.89	0.277	180			3	
OWJ6-16	Paynesville Joe Bar, Block G2	312902	692866	12		6	3	2	4.30	0.40	4	1,2	500			27.7	6.15	0.294	191			3	l
OWJ6-17	Paynesville Joe Bar, Block G2	312929	692846	12		6	3	2	5.29	1.44	1	1,2	100		1000	27.2	6.09	0.167	108			2	Dust, Leaves
OWJ6-18	Paynesville Joe Bar, Block G2	312959	692781	14	1	6	3	1	9.08	3.17	1	1,2	15			28.2	6.39	0.106	69			3	L
OWJ7-1	Duport Road South, Zubah Town	314602	612898	9	1	6	3	2	6.53 5.52	3.00	1	2	250 450		0.00	27.4 27.4	6.38	0.043 0.058	28			2	Dust, Leaves
OWJ7-2 OWJ7-3	Duport Road South, Zubah Town Duport Road South, Zubah Town	314616 314796	692923 692970	8	1	0	3	2	6.70	1.98 2.84	1	1,2	500	15	7500	28.1	6.26	0.058	96	1.2 3.4	1		Dust Leaves
	Duport Road South, Zubah Town	314487	692839	0	1	6	3	2	5.01	1.20	1	1.2	500	15		28.5	6.88	0.146	68		1	- 2	Dust, Leaves
OWJ7-5	Duport Road South, Zubah Town	314459	692756	9	1	5	1	2	5.98	2.75	1	1,2	500			27.7	5.51	0.104	22		1	2	Dust, Leaves
	Duport Road South, Zubah Town	314354	692713	11	1	6	3	2	4.72	3.29	2	2.3	500			27.9	5.37	0.053	34		1	2	Dust, Leaves
OWJ7-7	Duport Road South, Zubah Town	314509	692720	11		5	1	2	7.45	4.14	4	1,2	500		7500	27.6	4.86	0.045	29		1	3	
OWJ7-8	Duport Road South, Zubah Town	314605	692745	10		6	3	2	8.42	4.15	2	2,3	100			28.1	5.70	0.082	41	14.6	2	2	Dust, Leaves
OWJ7-9	Duport Road South, Zubah Town	314686	692768	12	1	5	3	1			1	1,2	500	15	7500	28.5	5.03	0.720	47	0.0	1	3	
OWJ8-1	Rihab/BorBor Town, Thinkers Village O.F.	316522	691051	7	1	6	3	2	3.72	0.65	4	2,3	9	15		26.1	6.47	0.216	140	0.0	3	2	Dust, Leaves
OWJ8-2	Rihab/BorBor Town, Thinkers Village O.F.	316660	690867	7	1	5	1	2	4.75	2.69	2	1,2	50	15	750	26.6	5.38	0.024	15	14.8	1	2	Dust, Leaves, Plastic bag
OWJ8-3	Rihab/BorBor Town, Thinkers Village O.F.	316700	691014	7	1	5	1	2	3.10	1.63	2	2,3	50			27.0	4.94	0.029	18		1	2	Dust, Leaves
OWJ8-4	Rihab/BorBor Town, Thinkers Village O.F.	316673	691190	5	1	6	3	2	4.50	0.78	1	2,3	50			27.6	6.26	0.101	65		1	2	Mosquitos, fleaes
OWJ8-5	Rihab/BorBor Town, Thinkers Village O.F.	316687	691268	5	1	6	3	2	4.20	0.90	1	2,3	50			27.8	6.86	0.128	83	1010	1	3	
OWJ8-6	Rihab/BorBor Town, Thinkers Village O.F.	316634	691344	5	1	6	3	2	3.67	0.15	1	2,3	150			28.0	6.90	0.065	42		1	3	
OWJ8-7 OWJ8-8	Rihab/BorBor Town, Thinkers Village O.F.	316548	691246	10	1	6	3	2	6.92	2.63	1	1,2	500			28.1	6.82	0.220	142		1	3	Dust Laurer
OWJ8-8 OWJ8-9	Rihab/BorBor Town, Thinkers Village O.F.	316430	691102	6	1	5	3	2	6.54 4.30	1.13	1	2 2 2	150 50			28.1	8.37	0.197 0.309	127		3 4		Dust, Leaves
OWJ8-9 OWJ8-10	Rihab/BorBor Town, Thinkers Village O.F. Rihab/BorBor Town, Thinkers Village O.F.	316350 316220	691114 690974	- 0	1	0	3	2	4.30	0.80 1.47	4	2,3	12	12	7 84	28.1 27.9	7.37 7.44	0.309	201 117	35.3 16.4	3,4	2	Dust, Leaves Dust, Leaves, Mold
OWJ8-10 OWJ8-11	Rihab/BorBor Town, Thinkers Village O.F.	316220	690974	- 8	1	5	1	2	6.80	2.07	1	1,2	50	15	07	27.9	7.44	0.180	84		1	2	Dust, Leaves, Moid
OWJ8-11	Rihab/BorBor Town, Thinkers Village O.F.	316277	690914	- 4	1	6	3	2	5.62	2.23	1	1,2	500			28.3	6.43	0.129	28			3	
OWJ9-1	Rihab/BorBor Town, Kendeh Town O.F.	315155	690129	7	1	6	3	,	4.60	0.46	2	1,2	500			26.9	6.19	0.411	267	3.3	1	- 3	
OWJ9-2	Rihab/BorBor Town, Kendeh Town O.F.	315153	690216	6	1	6	3	2.	3.91	0.40	1	1,2	500			26.6	6.09	0.174	113	11.9	1	3	1
OWJ9-3	Rihab/BorBor Town, Kendeh Town O.F.	315016	690047	7	1	5	1	2	2.37	0.10	2	2.3	50			27.3	6.26	0.190	123			2	Dust, Leaves
OWJ9-4	Rihab/BorBor Town, Kendeh Town O.F.	314832	690002	6	1	6	3	2	3.62	0.16	1	2,3	50			27.4	6.66	0.312	202			3	,
OWJ9-5	Rihab/BorBor Town, Kendeh Town O.F.	314979	689892	7	1	6	3	2	6.16	0.34	1	2,3	50	15	750	28.1	6.94	0.216	140		3	2	Dust, Leaves
OWJ9-6	Rihab/BorBor Town, Kendeh Town O.F.	314957	689946	7	1	6	3	2	4.70	0.28	1	2,3	20	15	300	28.3	6.87	0.404	262	0.0	3	3	
OWJ9-7	Rihab/BorBor Town, Kendeh Town O.F.	314950	689813	7	1	5	2	2	4.16	0.21	1	2,3	50			28.2	6.84	0.622	398		3	2	Muddy condition
OWJ9-8	Rihab/BorBor Town, Kendeh Town O.F.	314941	689772	8	1	6	3	2	4.15	0.50	4	2,3	50			28.0	7.13	0.585	375			2	Dust, Leaves
OWJ9-9	Rihab/BorBor Town, Kendeh Town O.F.	315143	689923	8	1	6	3	2	3.63	0.24	2	1,2	100	15	1500	28.0	6.85	0.167	109		3		Dust, Leaves
OWJ9-10	Rihab/BorBor Town, Kendeh Town O.F.	315147	689873	8	1	6	3	2	3.76	0.11	1	No use	0	0	0	27.7	6.91	0.270	175		3	2	Muddy, Rusty
OWJ9-11	Rihab/BorBor Town, Kendeh Town O.F.	315187	689894	8	1	6	3	2	6.04	0.27	1	2,3	500		7500	28.7	6.84	1.000	641			3	<u> </u>
OWJ9-12	Rihab/BorBor Town, Kendeh Town O.F.	315376	690016	8	1	6	3	2	3.75	0.41	4	2,3	500	15	7200	29.4	6.85	0.309	200				Leaves
OWJ9-13	Rihab/BorBor Town, Kendeh Town O.F.	315335	689938	9	1	6	3] 2	3.53	0.10	1	2,3	20	15	300	28.1	6.85	0.360	234	53	3,4	2	Dust, Leaves, Muddy

		(Coordinatio	n				Well Situatio	n				Us	se				Water Q	uality				Contamination
Well No.	Community	Eathting	Northing	EL	Type	Head	Casing	Equipment	T. Depth	WL	Dry-up	Purpose	Person	Yield	T.Volume	T	PH	EC	TDS	Turbidity	Condition	Kind	Description
		_	_	(m)			_	withdrawal	(m)	(m)	Situation	_		G/day/P	G/day	(⁰ C)		(mS/cm)	(mg/L)	(NTU)			_
OWJ10-1	Rihab/BorBor Town, Ghengbah Town	318115	689591	5	1	6	3	2	1.71	0.29	1	2,3	25	8	200	25.8	7.29	0.199	129	16.3	3		Dust, Muddy
OWJ10-2	Rihab/BorBor Town, Ghengbah Town	318148	689446	5	1	6	3	2	2.25	0.15	1	2,3	25	8	200	29.1	7.10	0.118	76	25.0	2,3		Rusty, Smell
OWJ10-3	Rihab/BorBor Town, Ghengbah Town	317828	689301	6	1	6	3	2	3.15	0.50	4	2,3	500	18	9000	27.1	6.68	0.201	130	17.1	2		Dust, Leaves
OWJ10-4	Rihab/BorBor Town, Ghengbah Town	317985	689445	6	1	6	3	2	4.67	0.86	1	2	10	8	80	27.2	7.11	0.266	172	14.1	2,3		Foamy
OWJ10-5	Rihab/BorBor Town, Ghengbah Town	318047	689579	5	1	6	3	2	3.05	0.06	1	2,3	150	15	2250	21.6	6.78	0.427	278	10.6	2,3		Tadpols
OWJ10-6	Rihab/BorBor Town, Ghengbah Town	318114	689766	4	1	6	3	2	5.90	0.10	4	2,3	250	15	3750	27.8	6.57	0.113	73	0.0	1		
OWJ10-7	Rihab/BorBor Town, Ghengbah Town	318094	689969	4	1	5	1	2	3.28	1.07	1	1,2	250	15	3750	27.6	5.70	0.164	107	0.0	1		
OWJ10-8	Rihab/BorBor Town, Ghengbah Town	318144	690018	4	1	6	3	2	5.10	0.35	1	1	500	10	5000	26.3	7.15	0.217	141	0.0			
OWJ10-9	Rihab/BorBor Town, Ghengbah Town	318425	689794	4	1	6	3	2	4.30	0.07	1	2,3	50	15	750	28.3	7.23	0.431	280	13.9	3		Rusty, Mudy
OWJ10-10	Rihab/BorBor Town, Ghengbah Town	318456	689661	4	1	6	3	2	3.58	0.27	4	2,3	250	15	3750	27.5	7.04	0.207	135	1.6		- 2	Leaves, Grasses
OWJ11-1	Rihab/Borbor Town, Ghengbah Town	317745	689351	6	1	5	2	2	1.06	0.87	2	2	15	5	75	31.3	7.14	0.539	345	77.0			
OWJ11-2	Rihab/Borbor Town, Ghengbah Town	317721	689282	6	1	6	3	2	3.22	0.90	2	2	35	15	525	29.8	7.50	2.590	1.66	0.8	4		
OWJ11-3	Rihab/Borbor Town, Ghengbah Town	317720	689281	6	1	6	3	2	3.77	0.89	4	2	170	20	3400	29.4	6.78	0.316	206	8.8	3		
OWJ11-4	Rihab/Borbor Town, Ghengbah Town	317618	689167	6	1	6	3	2	3.89	0.38	4	2	30	3	90	28.9	6.46	0.347	225	23.4	2		
OWJ11-5	Rihab/Borbor Town, Ghengbah Town	317405	689306	6	1	6	3	2	2.05	0.81	4	2	100	4	400	29.8	6.50	0.218	142	2.3			
OWJ11-6	Rihab/Borbor Town, Ghengbah Town	317299	689339	6	1	6	3	2	2.79	0.84	2	2	100	4	400	29.6	6.40	0.194	126	5.0	1		
IWD1-1	Rihab/BorBor Town, Rihab	3142235	690914	10	1	5	1	. 2	8.27	5.27	2	2,3	500	15	7500	26.4	6.55	0.031	20	(19.0)	1		
IWD1-2	Rihab/BorBor Town, Rihab	314205	690976	8	1	5	1	. 2	5.65	2.15	1	2,3	500	15	7500	26.8	5.77	0.040	25	(26.8)	1		
IWD1-3	Rihab/BorBor Town, Rihab	314220	691033	8	1	5	3	2	8.15	2.35	1	1,2	500	15	7500	26.6	5.70	0.077	50	(16.6)	1		
IWD1-4	Rihab/BorBor Town, Rihab	314383	691011	16	1	5	1	. 2	7.85	4.75	1	1,2	500	15	7500	26.4	5.84	0.045	29	(53.2)	1		
IWD1-5	Rihab/BorBor Town, Rihab	314525	691161	8	1	5	1	. 2	5.50	2.99	1	1,2	500	15	7500	26.9	5.30	0.062	40	(34.4)	1	-	Roots
IWD1-6	Rihab/BorBor Town, Rihab	314579	691127	13	1	5	1	. 2	9.35	7.69	2	1,2	500	15	7500	27.0	5.18	0.056	36	30.9	3		Leaves, Grasses
IWD1-7	Rihab/BorBor Town, Rihab	314624	691127	13	1	6	3	2	9.02	7.58	2	2,3	500	8	4000	27.2	5.27	0.050	32	1.9	1		
IWD1-8	Rihab/BorBor Town, Rihab	314895	691194	9	1	5	1	. 2	7.30	3.06	4	2,3	500	15	7500	26.8	5.32	0.040	25	36.0	3		Plastic bags, Rags
IWD1-9	Rihab/BorBor Town, Rihab	315060	691175	6	1	5	1	. 2	3.50	1.55	2	2	250	15	3750	27.2	4.85	0.035	23	2.8	2	-	Dust, Leaves
IWD1-10	Rihab/BorBor Town, Rihab	314541	690887	27	1	6	3	2	7.85	5.05	2	2,3	200	15	3000	26.8	5.25	0.073	47	17.9	1	2	Tadpols, Mold
IWD1-11	Rihab/BorBor Town, Rihab	314415	690355	8	1	6	3	2	4.73	1.34	1	1,2	500	15	7500	27.3	5.55	0.057	36	13.7	1		
IWD1-12	Rihab/BorBor Town, Rihab	314667	690473	15	1	6	3	2	7.65	1.92	2	1,2	500	15	7500	27.6	6.25	0.096	62	15.3	1		Dry grasses
IWD1-13	Rihab/BorBor Town, Rihab	315006	690627	16	1	6	3	2	7.58	2.65	4	2,3	500	15	7500	27.3	5.66	0.048	31	10.4	1		
IWD2-1	Rihab/BorBor Town, Thinkers village O.F.	316305	690414	9	1	5	1	. 2	4.79	0.78	2	1,2	500	15	7500	26.9	5.80	0.033	21	(82.0)	1		
IWD2-2	Rihab/BorBor Town, Thinkers village O.F.	316390	690554	9	1	5	1	. 2	4.58	2.45	2	1,2	500	15	7500	26.9	5.42	0.022	14	(27.8)	1		
IWD2-3	Rihab/BorBor Town, Thinkers village O.F.	316604	690403	12	1	6	1	. 2	8.62	3.03	2	2,3	250	15	3750	26.1	5.70	0.027	17	(46.1)	2		Trashes
IWD2-4	Rihab/BorBor Town, Thinkers village O.F.	316561	690245	11	1	5	1	. 2	4.53	2.83	1	2,3	500	15	7500	28.1	5.60	0.064	42	(94.0)	2		Foamy
IWD2-5	Rihab/BorBor Town, Thinkers village O.F.	316558	690200	10	1	5	1	2	4.18	2.04	2	2,3	500	15	7500	27.9	5.58	0.119	77	12.7	1		Leaves, Ants
IWD2-6	Rihab/BorBor Town, Thinkers village O.F.	316601	690125	8	2	6	1	1	12.20		2	1,2	500	15	7500	28.7	5.16	0.016	10	8.0	1	- 3	
IWD2-7	Rihab/BorBor Town, Thinkers village O.F.	316282	690111	8	1	6	3	2	3.20	0.30	4	2,3	25	15		28.1	6.45	0.215	140	7.1	1		Dust, Leaves
IWD2-8	Rihab/BorBor Town, Thinkers village O.F.	316201	690496	10	1	6	3	2	7.55	2.03	1	1,2	500	15	7500	27.8	7.52	0.053	34	6.2	1	- 3	
IWD2-9	Rihab/BorBor Town, Thinkers village O.F.	316265	690564	11	1	5	1	2	5.40	1.93	2	2,3	250	15		27.8	6.56	0.034	22	8.0	1		
IWD2-10	Rihab/BorBor Town, Thinkers village O.F.	315928	690630	10	1	6	1	2	4.50	1.60	4	1,2	500	15	7500	28.4	5.67	0.065	42	0.0	1	- 3	
IWD2-11	Rihab/BorBor Town, Thinkers village O.F.	315675	690717	6	1	6	3	1	12.00		4	1,2	500	15	7500	29.0	5.69	0.065	44	0.0	1		

Remarks;

Well Situation

Type Head 1; Dug well, 2; Drilled Well

1; Nothing, 2; Tire, 3; Drum, 4; Stone maysonry,

5; Block, 6; Concrete

1; Nothing, 2; Block, 3; Concrete colgate, 4; PVC casing, 5; Steel casing Casing

1; Hand pump, 2; Well bucket Equipment

Dry-up 1; No dry-up, 2; Dry up in dry season, 3; Sometimes dry-up by drawing

4; Water level goes down in dry season, 5; Water level goes down by drawing

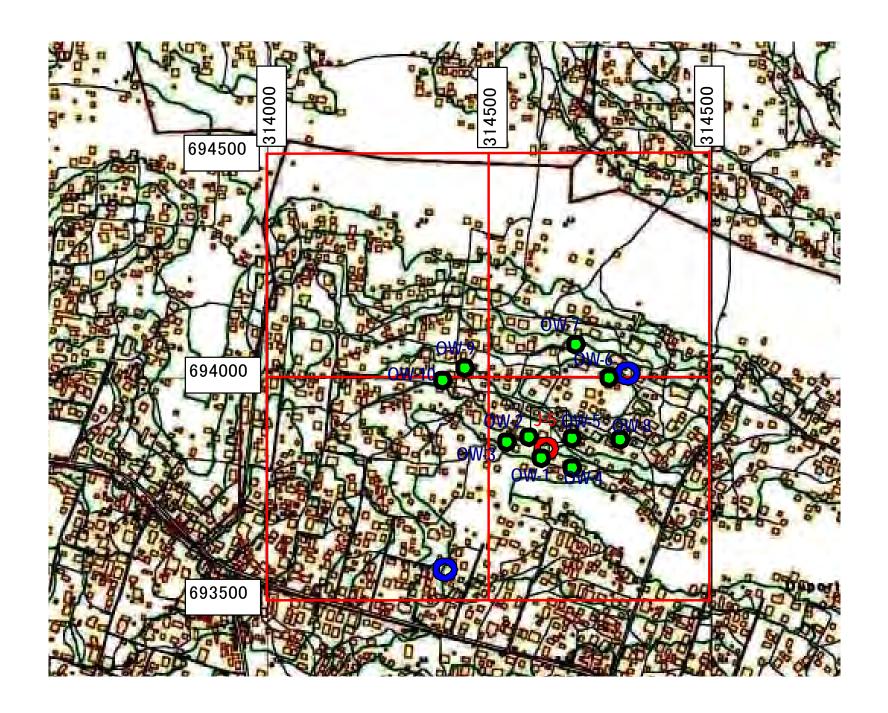
Water Quality

Condition 1; Claen, 2; Cloudy, 3; Colored, 4; Dirty, 5; Salty

Contamination

Kind 1; Oil contamination, 2; Other contamination, 3; No contamination

J-5 AREA



***					, 11 5 1111)		OWJ5-1	
W.	ELL INVI	ENTORY (f	or Expl	oratory W	(ell Drilling)	Survey Date	27 Oc	t. 2009
Registered W	ell No.			Zone	Paynesville	Community	71 -	oad North ow field
Location	Easting	31462	4	Northing	693831	Elevation	9	r
Construction	Year	1999	1	Provider	M	rs. Jessie Kel	cula	
	Туре	1.)Dug well/ 2. well/ 3. Others		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6.Co		Well head hight (m)	0.0
Well Type/ Dimension	Casing		Block, 3. (Concrete colg eel casing wit	ate, 4. PVC casing with	Equipment	1. Hand pur Draw well,	
	Diameter (cm)	150		Total Depth (m)	4.99	Water Level (m)	1.80	
Water Use/	1. Drinking	water 2 Wash	ing water)		2,3
Yield	No. of User	500		Volume	15 Gallon / day / person	Total	7500	Gallon / d
Dry-up Condition		p. Dry-up in own in dry seas), 3. Sometimes dr Water level goes down b		ving, 4. Wate	r 2
	Tempera- true	28.8		pН	6.30	E.C	0.093	mS/c
Water	TDS	60	mg/L	Salt	0.0 ppt	Turbidity	7.5	NT
Quality	Others	1. Clean 2 Cl 4. Dirty, 5. Sal		olored (Yello	wish, Brownish, Reddisl	h, Other ()),	2,4
Contamina- tion	early morni disappears	ng, it eases by drawing. d. tamination can asure for con	drawing. o An oil smo not be per	Although a ell is felt.	l water. b. Although an o n oil film is confirmed at Other contamination (du	early morni	ng, it	2
Other Resident Conscious- ness	·							
			ere e					





Remarks	

XX 71	ETT INIX/I		(f F)	4 33	/-II D-::II:)		OWJ5-2	
VV I	ELL INVI	ENIORY	(Ior Expid	oratory w	ell Drilling)	Survey Date	27 Oc	t. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	Duport R East, C	oad North ow field
Location	Easting	314	594	Northing	693867	Elevation	9	m
Construction	Year	19	92	Provider	М	r. Wedy Gba	yan	
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. Tire, 3. D masonry, 5 Block, 6.Co		Well head hight (m)	0.90
Well Type/ Dimension	Casing (1) Nothing, 2 Screen (Concrete colg	rate, 4. PVC casing with	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	150	,,	Total Depth (m)	5.87	Water Level (m)	3.37	
Water Use/	_	water 2. Wa	shing water,	· • · · · ·	,)	ı	1,2
Yield	No. of User	50	00	Volume	15 Gallon / da	TIOTAL	7500	Gallon / day
Dry-up Condition		p, 2. Dry-up i own in dry se	•), 3. Sometimes dr Water level goes down l	y-up by drav	ving, 4. Wate	r 4
Condition	Tempera- true	29.2		pH	4.44	E.C	0.088	mS/cm
Water	TDS	57	mg/L	Salt	0.0 рр	t Turbidity	6.3	NTU
Quality	Others	1) Clean, 2. 0 4. Dirty, 5. S		olored (Yello	owish, Brownish, Reddis	h, Other ()),	1
Contamina- tion	3.Any conta Countermea contaminati Disease by y	ion	nnot be perce	eived				
Other Resident Conscious- ness								

***	DII ININI	NTODY	(for E1	amata=== 117	all Davie	~)		OWJ5-3	
WI	ELL INVI	LNIORY	(Ior Expl	oratory W	en Drillin	g)	Survey Date	27 Oct	t. 2009
Registered We	ell No.			Zone	Payno	esville	Community	Duport R East, C	oad North ow field
Location	Easting	314	547	Northing	693	858	Elevation	8	m
Construction	Year			Provider			Mr. Wilson		
	Type	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2 masonry, 5,	Block 6.Cor		hight (m)	0.46
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit		casing with m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	80		Total Depth (m)	4.93		Water Level (m)	2.12	
Water Use/) í	wate 🕠 . Wa	shing water)		2
Yield	No. of User	50	00	Volume	15	Gallon / day / person	Total	7500	Gallon / day
Dry-up	1. No dry-up level goes do	o, 2. Dry-up	•	•), 3. So Water level	metimes dry	-up by draw	ing, 4. Wate	r 4
Condition	Tempera-	28.8	•	pH	4.92	goes down b	E.C	0.075	mS/cm
Water	TDS	49	mg/L	Salt	0.0	ppt	Turbidity	6.4	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S	• .	colored (Yello	owish, Brown	ish, Reddish	o, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases b by drawing. on tamination on asure for on	y drawing. c d. An oil smo	ixes with well c. Although a ell is felt. 2. (erceived	n oil film is c	onfirmed at	early mornii	ng, it	2
Other Resident Conscious-									
ness									
Remarks									

			(C E 1	4 11	. 11 15 - 111 -)			OWJ5-4	
D 1 XX	ELL INVI	ENIURY	(Ior Explo	oratory w	ell Drilling)		Survey Date	27 Oct	t. 2009
Registered W	ell No.			Zone	Paynesv	rille	Community	Duport Ro East, Co	
Location	Easting	314	1690	Northing	69379	8	Elevation	8	m
Construction	Year	19	93	Provider		M	r. Martin Pa	ye	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. I			Well head hight (m)	0.44
Well Type/ Dimension	Casing		2. Block, 3. C	Concrete colg	ate, 4. PVC cas	ing with	Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	120		Total Depth (m)	1.81	,	Water Level (m)	0.45	
Water Use/		water 3. Wa	ashing water,)		2
Yield	No. of User	4	50	Volume	15 G	allon / day / person	Total	6750	Gallon / day
Dry-up Condition	1) No dry-u	p, 2. Dry-up own in dry so), 3. Some Water level goo	etimes dry	-up by draw	ving, 4. Wate	r ₁
Condition	Tempera-	28.4	·	pH	5.15		E.C	0.064	mS/cm
Water	TDS	41	mg/L	Salt	0.0	ppt	Turbidity	5.0	NTU
Water Quality	Others	1)Clean, 2. 4. Dirty, 5. S	• .	 olored (Yello	wish, Brownish		-)),	1
Contamina- tion		ntamination asure for on	cannot be pe		Other contamin	ation (blo	owing dust, l	eaves	
Other Resident Conscious- ness									

***	DII ININI	NTARY	(for E1		all Daving	~)		OWJ5-5	
WI	ELL INVI	LNIORY	(Ior Explo	oratory W	eli Drillin	g)	Survey Date	27 Oc	t. 2009
Registered We	ell No.			Zone	Payn	esville	Community	_	oad North ow field
Location	Easting	314	1690	Northing	693	865	Elevation	10	m
Construction	Year	20	004	Provider			NGO		
	Type	1.)Dug well/ well/ 3. Oth	ers	Well Head	masonry, 5,			hight (m)	0.50
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg		casing with m)	Equipment	1. Hand pur Draw well, 3	
2	Diameter (cm)	80		Total Depth (m)	7.64		Water Level (m)	4.63	
Water Use/	`	water 2. Wa	ashing water	, 3. Others (cooking		Dever (m))	2
Yield	No. of User	2	20	Volume	11	Gallon / day / person	1 otai	_	Gallon / day
Dry-up			in dry seasor), 3. Sc	metimes dry	-up by draw	ving, 4. Wate	r ₄
Condition	Tempera-	own in ary se 29.7	eason (4 mo	pH	Water level 5.16	goes down b	y drawing E.C	0.076	mS/cm
	TDS	49	mg/L		0.0	ppt	Turbidity	11.1	NTU
Water Quality	Others	1) Clean, 2. Dirty, 5. Sal	Cloudy 3.C	olored (Yello	wish, Brown		-	netimes)), 4.	1
Contamina- tion	early morni disappears l	ng, it eases b by drawing. on tamination on asure for on	y drawing. c d. An oil sme cannot be pe	(xes with well . Although a cell is felt. (2) (received n 4 times/yea	n oil film is c Other contan	onfirmed at	early morni	ng, it	2
Other Resident Conscious- ness	_		 vater in dry :	season. Wate	r makes itch	es on user's s	skin.		
Remarks									

2371	ייציאן דאק	ZNITADS?	(Cor E	ama4 ***	all D-200	~)		OWJ5-6	
Wı	ELL INVI	ENTORY	(for Expl	oratory W	eli Drillin	g)	Survey Date	27 Oc	t. 2009
Registered Wo	ell No.			Zone	Payno	esville	Community	, -	oad North ow field
Location	Easting	314	777	Northing	693	995	Elevation	14	m
Construction	Year	20	01	Provider		N	Ar. Saye Gbo	or	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2 masonry (5)		rum, 4. Stone ncrete	Well head hight (m)	0.6
Well Type/	Casing	_	-	Concrete colg		_	Equipment	1. Hand pur	_
Dimension	- C	Screen (m), 5. Ste	el casing wit	h Screen (m)	Water	Draw well,	3. Others
	Diameter (cm)	150		Depth (m)	10.58		Water Level (m)	7.42	
water Use/	1) Drinking	water 2. Wa	shing water	, 3. Others (cooking)	1,2
Yield	No. of User	50	00	Volume	11	/ person	Total		Gallon / da
Dry-up		p, 2. Dry-up i	•	n (), 3. Sometim	es dry-up by	y drawin g, 3 .	. Water level	4
Condition	0	n dry season	(1 week), 5. Water	level goes do	wn by drawi	ing	1	
	Tempera- true	28.8	°C	pН	4.96		E.C	0.048	mS/cm
Water	TDS	31	mg/L	Salt	0.0	ppt	Turbidity	10.8	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S		olored (Yello	wish, Brown	ish, Reddish	o, Other ()),	1
Contamina- tion	disappears l	by drawing. on cannot be asure for on	d. An oil sme perceived	a. Although a cell is felt.) 2. Cen n 6 times/yea	Other contan		early morni	ng, it	
Other Resident Conscious- ness	Vinca.			éx I	~			Ž.	
Remarks									

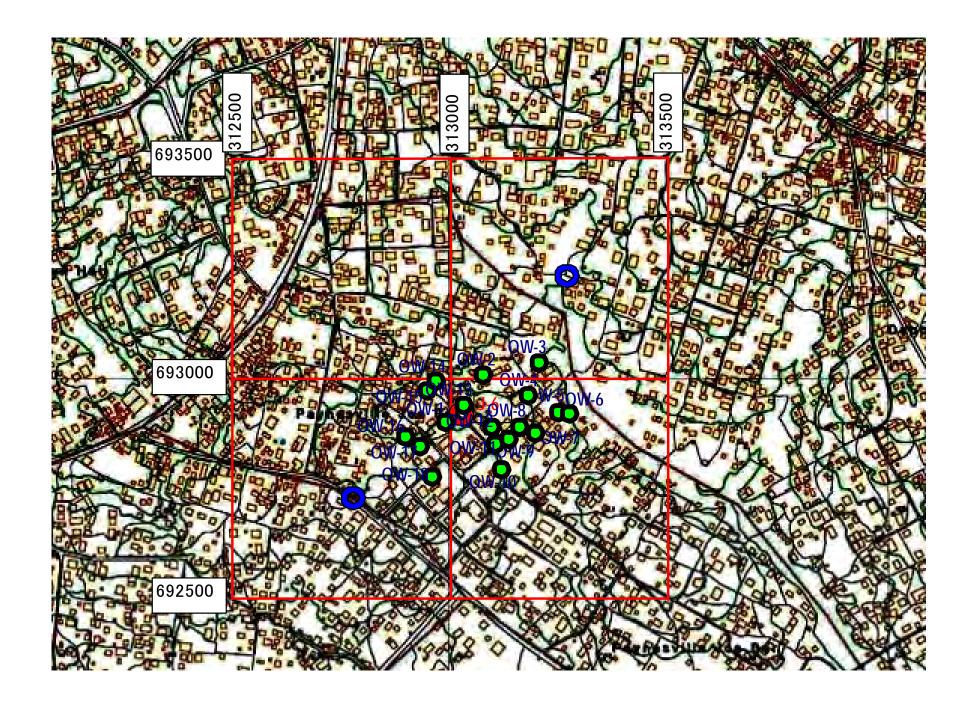
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W	ELL INVI	ENTORY	(tor Explo	oratory w	(ell Drilling)	Survey Date	27 Oct	t. 2009		
Registered Wo	ell No.			Zone	Paynesville	Community	Duport Ro East, Co	oad North ow field		
Location	Easting	314	703	Northing	694077	Elevation	12	m		
Construction		20		Provider	N	⁄Ir. Benk Jall	eh			
	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2. Tire, 3. D masonry, 5. Block, 6.Co		hight (m)	0.71		
Well Type/ Dimension	Casing (1) Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pun Draw well, 3			
Difficusion	Diameter (cm)	120		Total Depth (m)	7.73	Water Level (m)	4.74	, others		
Water Use/	` ′	water 2 Wa	shing water	• • •	l)		2		
Yield	No. of User	50	00	Volume	15 Gallon / day / person	Trotal	7500	Gallon / day		
Dry-up Condition	1)No dry-uj goes down i	o, 2. Dry-up i n dry season			, 3. Sometimes dry-up by el goes down by drawing	_	Water level	1		
	Tempera- true	28.6		pН	4.20	E.C	0.066	mS/cm		
Water	TDS	43	mg/L	Salt	0.0 pp	Turbidity	7.4	NTU		
Quality	Others	Others (1) Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other ()), 4. Dirty, 5. Salty								
Contamina- tion		oy drawing. on mination can sure for on	l. An oil sme	ell is felt.\2.	n oil film is confirmed at Other contamination (bl		ng, it	2		
Other Resident Conscious- ness										
Remarks										

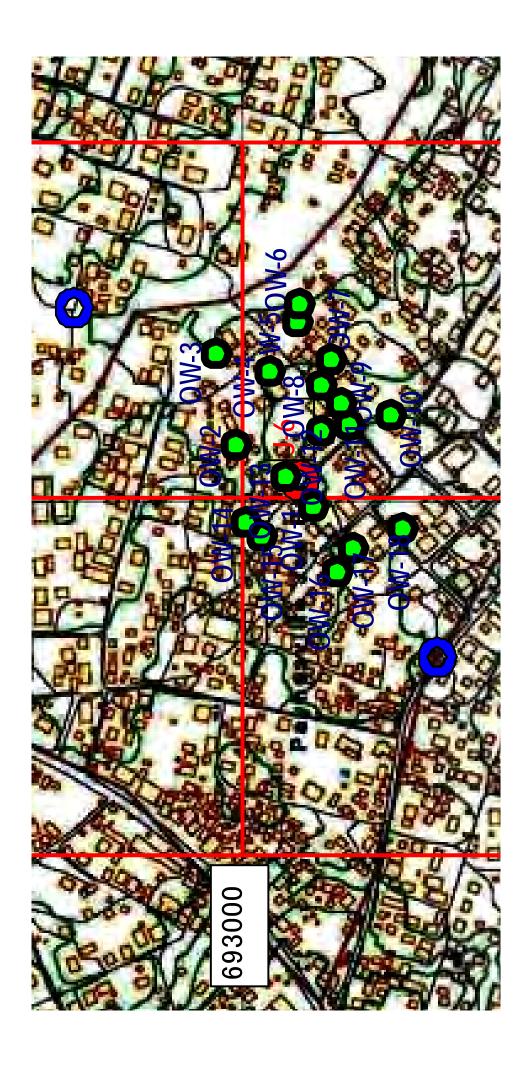
***			(6 E l	4 117	. 11 15 - 1111	`		OWJ5-8	
WI	ELL INVI	ENTORY	(tor Explo	oratory W	eli Drillin	g)	Survey Date	27 Oct	t. 2009
Registered We	ell No.			Zone	Payn	esville	Community		oad North ow field
Location	Easting	314	797	Northing	693	864	Elevation	12	m
Construction	Year	2007 Provider Mr. Joshua Reeves				eves			
	Type	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2 masonry, 5,		um, 4. Stone acrete	Well head hight (m)	0.05
Well Type/ Dimension	Casing		2. Block, 3. (Concrete colg	ate, 4. PVC		Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	150		Total Depth (m)	7.39		Water Level (m)	5.99	
Water Use/	` /	water, 3. Wa	shing water	, 3. Others (cooking		Level (III))	2
Yield	No. of User 15			Volume	11	Gallon / day / person	Total	165	Gallon / day
Dry-up		Dry-up i				metimes dry	up by draw	l ing, 4. Water	ı.
Condition	Tempera-	own in dry se 29.9	,), 5.	Water level	goes down b	y drawing E.C	0.125	mS/cm
	TDS	81	mg/L	_	0.0	nnt	Turbidity	14.8	NTU
Water Quality	TDS		8	olored (Yello			-)),	
	Others	4. Dirty, 5. S	Salty	O					3
Contamina- tion	disappears l	oy drawing. on ntamination on nsure for on	l. An oil sme	. Although a ell is felt.) 2. (rceived	n oil film is c Other contan	onfirmed at	early mornii owing dust, l	ng, it leaves	
Other Resident Conscious- ness	Discuse 85 V	, unco							
Remarks									

**/			(f F1	4	(-II D!II:)		OWJ5-9	
VV I	ELL INVI	ENIUKY	(IOT EXPIC	oratory vv	(ell Drilling)	Survey Date	27 Oc	t. 2009
Registered Wo	ell No.			Zone	Paynesville	Community		oad North ow field
Location	Easting	314	1449	Northing	694018	Elevation	14	m
Construction	Year			Provider	Mr	. Jimmy Sulo	onteh	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5. Block, 6.Co		Well head hight (m)	0.40
Well Type/ Dimension	Casing (2. Block, 3. C	Concrete colg el casing wit	ate, 4. PVC casing with	Equipment	1. Hand pur Draw well,	
	Diameter (cm)	150		Total Depth (m)	7.98	Water Level (m)	3.76	
Water Use/		water, 2. Wa	shing water,)	1	2,3
Yield	No. of User	10	00	Volume	8 Gallon / day		800	Gallon / day
Dry-up Condition		p, 2. Dry-up i n dry season	in dry season (4 months		, 3. Sometimes dry-up by ter level goes down by di	drawing, 4.	Water level	4
	Tempera- true	28.6	°C	pН	4.57	E.C	0.69	mS/cm
Water	TDS	44	mg/L	Salt	0.0 ppt	Turbidity	11.0	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S		olored (Yello	wish, Krdwnish, Reddish	n, Other ()),	3
Contamina- tion		ntamination asure for on	d. An oil sme cannot be pe Chlorination	rceived	Other contamination (du	st, leaves blo	owing	
Other Resident Conscious- ness								
Remarks								

% \$71	DII ININI	NITODS?	(for E1		(all Duillin a)		OWJ5-10				
W	ELL INVI	LNIORY	(tor Explo	oratory w	(ell Drilling)	Survey Date	27 Oc	t. 2009			
Registered Wo	ell No.			Zone	Paynesville	Community		oad North ow field			
Location	Easting	314	398	Northing	693991	Elevation	12	m			
Construction		1993 Provider Mr. Amos Twe									
	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5. Block, 6.Com		hight (m)	0.10			
Well Type/ Dimension	Casing	1) Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3				
	Diameter (cm)	180		Total Depth (m)	5.68	Water Level (m)	2.15				
Water Use/	1. Drinking water, 2. Washing water, 3. Others (2			
Yield	No. of User	2	6	Volume	3 Gallon / day / person	Total	78	Gallon / day			
Dry-up Condition		o, 2. Dry-up i n dry season	•	1 () Water level	, 3. Sometimes dry-up by goes down by drawing	drawing 4	Water level	4			
Condition	Tempera- true	28.4		pH	4.60	E.C	0.036	mS/cm			
Water	TDS	23	mg/L	Salt	0.0 ppt	Turbidity	33.5	NTU			
Quality	Others	Others 1. Clean 2 Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other ()), 2,4 Others									
Contamina- tion		oy drawing. camination can sure for on	l. An oil sme	ell is felt ()) . (n oil film is confirmed at Other contamination (blo			2			
Other Resident Conscious- ness											
Remarks											

J-6 AREA





XX 71	ETT TNIX/I	ZNTODY	(for Frank	4 XX	all Duillin a)		OWJ6-1	
VV]	ELL INVI	ENIURY	(Ior Explo	oratory vv	ell Drilling)	Survey Date	28 Oc	t. 2009
Registered W	ell No.			Zone	Paynesville	Community	Paynesville Joe Bar Block G2	
Location	Easting	312	993	Northing	692905	Elevation	11	m
Construction	Year	20	005	Provider		Mr. Richard W	esee	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. masonry, 5, Block, 6		Well head hight (m)	0.60
Well Type/ Dimension	Casing		2. Block (3) (Concrete colg	ate, 4. PVC casing wi h Screen (m)	th Equipment	1. Hand pur Draw well,	
Difficusion	Diameter (cm)	65		Total Depth (m)	5.72	Water Level (m)	2.03	
Water Use/	` · · ·	water, 2. Wa	shing water	,3.Others (cooking	Level (III))	2,3
Yield	No. of User 20			Volume	15 Gallon /	day Son Total	300	Gallon / day
Dry-up Condition		p, 2. Dry-up own in dry se), 3. Sometimes Water level goes dow	dry-up by drav	ving(4) Wate	r 4
Condition	Tempera- true	28.1	· · · · · · · · · · · · · · · · · · ·	pH	5.97	E.C	0.107	mS/cm
Water	TDS	69	mg/L	Salt	0.0	ppt Turbidity	0.0	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S		olored (Yello	wish, Brownish, Red	dish, Other ()),	1
Contamina- ion	disappears l	by drawing. omination can mination can asure for on	d. An oil sme	ell is felt.) 2. (n oil film is confirmed Other contamination (ng, it	
Other Resident Conscious- ness								
Remarks								

THE TAIR!		(C E 1	4 111	(II D (III)		OWJ6-2		
ELL INVI	ENTORY	(for Explo	oratory W	ell Drilling)	Survey Date	28 Oc	t. 2009	
ell No.			Zone	Paynesville	Community	1 -	le Joe Bar, k G2	
Easting	313	6070	Northing	693007	Elevation	10	n	
Year	20	005	Provider	Mr.	Abraham Da	arsaw		
Туре			Well Head			Well head hight (m)	0.8	
Casing	1. Nothing,	2. Block (3) (ate, 4. PVC casing with	Equipment			
Diameter (cm)	75 m), 5. Ste		Total	3.90	Water Level (m)	1.15	5. Otners	
	water, 2. Wa	shing water		I)		2,3	
No. of User				1 15	LINIAL	1500	Gallon / da	
), 3. Sometimes dry	y-up by draw	ing, 4. Wate	r 1	
Tempera-	•	· · · · · · · · · · · · · · · · · · ·		5.81	y drawing E.C	0.116	mS/cr	
TDS	75	mg/L	Salt	0.0 ppt	Turbidity	5.9	NTU	
Others	-	• .	olored (Yello	 pwish, Brownish, Reddish	n, Other ()),	1	
early morni disappears) 3.Any con Counterme	ing, it eases b by drawing. tamination ca asure for	y drawing. c d. An oil sme annot be per	. Although a ell is felt.)20 ceived	n oil film is confirmed at Other contamination (Du	early morni	ng, it	2	
Disease by v	water							
	Year Type Casing Diameter (cm) 1. Drinking No. of User 1. No dry-u level goes de Temperatrue TDS Others 1. Oil Conta early morni disappears) 3. Any con Countermes contaminati	Easting 313 Year 20 Type 1.Dug well/ well/ 3. Other 2. Others 2. Others 313 Type 2.Dug well/ 3. Other 3. Oth	Easting 313070 Year 2005 Type 1. Dug well/ 2. Drilled well/ 3. Others 1. Nothing, 2. Block 3. Casing Screen (m), 5. Steen (m)	Easting 313070 Northing Year 2005 Provider Type 1.Dug well/ 2. Drilled well / 3. Others Casing 1. Nothing, 2. Block 3 Concrete colg Screen (m), 5. Steel casing with Diameter (cm) Total Depth (m) 1. Drinking water, 2. Washing water, 3. Others (No. of User 500 Volume 1. No dry-up, 2. Dry-up in dry season (1 week level goes down in dry season (1 week level goes down in dry season (1), 5. Temperatrue 27.8 °C pH TDS 75 mg/L Salt (1) Clean, 2. Cloudy, 3. Colored (Yellow) 4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mixes with well early morning, it eases by drawing. c. Although a disappears by drawing. d. An oil smell is felt. (2) (2) (3) Any contamination cannot be perceived Countermeasure for Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (Chlorination 6 times/year contamination (201 always mixes with well carly morning) (201 always mixes with	Easting 313070 Northing 693007 Year 2005 Provider Mr. Type 1. Dug well/ 2. Drilled well/ 3. Others Well Head well/ 3. Others 1. Nothing, 2. Block 3 Concrete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Diameter (cm) 75 Total Depth (m) 3.90 1. Drinking water, 2. Washing water, 3. Others (Mo. of User 500 Volume 15 Gallon / day / person (L) No dry-up, 2. Dry-up in dry season (1 week level goes down by 5.81 TDS 75 mg/L Salt 0.0 ppt (1) Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish 4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mixes with well water. b. Although an oil early morning, it eases by drawing. c. Although an oil film is confirmed at disappears by drawing. d. An oil smell is felt. (2) Other contamination (Dr.) 3. Any contamination cannot be perceived Countermeasure for Chlorination 6 times/year	ell No. Zone Paynesville Community	ell No. Zone Paynesville Community Paynesville	

Remarks

**************************************	DE E ENIETE	ZNITODE?	(f E	4- TT	7-11 D-2112- \		OWJ6-3	
W	ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling)	Survey Date	28 Oc	t. 2009
Registered W	ell No.			Zone	Paynesville	Community	Paynesville Joe Ba Block G2	
Location	Easting	313	203	Northing	693028	Elevation	9	m
Construction	Year	20	002	Provider	Mı	. Samuel G. I	Dahn	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. D masonry, 5, Block, 9.Co		Well head hight (m)	0.58
Well Type/ Dimension	Casing	1. Nothing, Screen (Concrete colg	gate, 4. PVC casing with	Equipment	1. Hand pur Draw well, 3	
Dimension	Diameter (cm)	75		Total Depth (m)	1.68	Water Level (m)	0.50	o chers
Water Use/	1. Drinking	water 2 Wa	shing water	, 3. Others ()		2
Yield	No. of User	2	25	Volume	15 Gallon / da		375	Gallon / day
Dry-up Condition		Dry-up own in dry se), 3. Sometimes di . Water level goes down	y-up by drav by drawing	ving, 4. Wate	r 2
	Tempera- true	27.3	°C	pН	6.10	E.C	0.214	mS/cm
Water	TDS	139	mg/L	Salt	0.0 pp	Turbidity	4.4	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S	• .	olored (Yello	owish, Brownish, Reddis	h, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases b by drawing. on on cannot be asure for on	y drawing. o d. An oil smo perceived	. Although a	l water. b. Although an on oil film is confirmed a Other contamination (3
Other Resident Conscious- ness		i						Marc .

Remarks

**/	ELT INIX/I		14 337	(-II D:II:)		OWJ6-4	
VV J	ELL INVI	ENTORY (for Ex	pioratory w	eli Drilling)	Survey Date	28 Oc	t. 2009
Registered Wo	ell No.		Zone	Paynesville	Community		le Joe Bar, k G2
Location	Easting	313177	Northing	692960	Elevation	10	m
Construction	Year	1993	Provider	Mr.	Benjamin W	arner	
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Di masonry, 5, Block 6 Co		Well head hight (m)	0.53
Well Type/ Dimension	Casing		3) Concrete colg Steel casing wit	ate, 4. PVC casing with	Equipment	1. Hand pur Draw well,	
	Diameter (cm)	60	Total Depth (m)	3.68	Water Level (m)	1.59	
Water Use/	1. Drinking)	2.3				
Yield	No. of User	500	Volume	15 Gallon / day	LIOTAL	7500	Gallon / day
Dry-up		Dry-up in dry sea Own in dry season (), 3. Sometimes dry- ter level goes down by dr	up by drawii	ng, 4. Water	2
Condition	Tempera-	27.0	°C pH	6.40	E.C	0.137	mS/cm
XX /-4	TDS	89 mg	g/L Salt	0.0 ppt	Turbidity	6.0	NTU
Water Quality	Others			wish, Brownish, Reddish	-)), 4.	1
Contamina- tion	Any contam Countermes contaminati	ination cannot be percusure for Chlorina on		Other contamination (b)	lowing dust) 3	•
Other Resident Conscious- ness	Disease by v Warms are	come up in water in di	ry season.				***
						23	
Remarks							

**/			/C E L	4 337	. 11 15 - 111 - 1			OWJ6-5	
WI	ELL INVI	LNIORY	(Ior Expid	oratory vv	(ell Drilling		Survey Date	28 Oct	t. 2009
Registered We	ell No.			Zone	Paynesv	ville	Community	Paynesvill Bloc	
Location	Easting	313	246	Northing	69292	22	Elevation	8	m
Construction	Year	19	80	Provider		Mr	s. Henry Wr	ight	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. masonry, 5, Bl			Well head hight (m)	0.40
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg el casing wit	ate, 4. PVC cas h Screen (sing with m)	Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	70		Total Depth (m)	3.05	,	Water Level (m)	1.08	
Water Use/		water Wa	shing water,	• •	ı)	/		2
Yield	No. of User	8	3	Volume	15	Gallon / day / person	Total	120	Gallon / day
Dry-up Condition		o, 2. Dry-up i n dry season	in dry season		3. Sometimes d ater level goes	ry-up by d		Vater level	4
Condition	Tempera- true	27.2		pH	6.27	down by d	E.C	0.078	mS/cm
Water	TDS	50	mg/L	Salt	0.0	ppt	Turbidity	3.8	NTU
Quality	Others	1)Clean, 2. 4. Dirty, 5. S	• .	olored (Yello	wish, Brownis	h, Reddish	, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases b oy drawing. o on cannot be asure for on	y drawing. c. d. An oil sme	. Although a ll is felt.) 2. (l water. b. Alth n oil film is con Other contamir	firmed at			3
Other Resident Conscious- ness									
Remarks									

***	171 T TAIS 7T	ZNITADY	(for E1		(all D.::ll:)		OWJ6-6	
W	ELL INVI	ENTORY	(for Explo	oratory W	(ell Drilling)	Survey Date	28 Oct	t. 2009
Registered W	ell No.			Zone	Paynesville	Community	Paynesvill Block	le Joe Bar, k G2
Location	Easting	313	266	Northing	692925	Elevation	Elevation 8	
Construction	Year			Provider	M	Ir. William C	Cole	
	Type	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block 6,Co		hight (m)	0.45
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	70		Total Depth (m)	2.80	Water Level (m)	0.78	
Water Use/	<u> </u>	water(2)Wa	shing water	, 3. Others (cooking	zever (m))	1,2
Yield	No. of User	80	00	Volume	8 Gallon / day	1 otal		Gallon / day
Dry-up Condition		p, 2. Dry-up i own in dry se), 3. Sometimes dr Vater level goes down by	y-up by draw	ving 4 Wate	r 4
Condition	Tempera- true	27.4	·	pH	6.23	E.C	0.195	mS/cm
Water	TDS	127	mg/L	Salt	0.0 ppt	Turbidity	4.0	NTU
Quality	Others	1) Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other ()), 4. Dirty, 5. Salty						
Contamina- tion		by drawing. on amination can asure for on	d. An oil sme	ell is felt. 2	n oil film is confirmed at Other contamination (bl nth			2
Other Resident Conscious- ness	·							

***	DI I INN			70WJ6-7					
VV I	ELL INVI	ENIURY	(Ior Explo	oratory w	(ell Drilling)	Survey Date	28 Oc	t. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community		le Joe Bar, k G2	
Location	Easting	313	3194	Northing	692880	Elevation	10	m	
Construction			91	Provider		r. Alfred Bor			
	Туре	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6.Co		hight (m)	0.45	
Well Type/ Dimension	Casing (1) Nothing, Screen (Concrete colg eel casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well,		
	Diameter (cm)	150		Total Depth (m)	3.53	Water Level (m)	1.62		
Water Use/	1. Drinking	water,). Wa	ashing water	3. Others (cooking)		2,3	
Yield	No. of User	5	00	Volume	15 Gallon / day / person	LIOTAL	7500	Gallon / day	
Dry-up Condition			in dry seasor eason (4 mo), 3. Sometimes dr Vater level goes down by	y-up by draw drawing	ving, J. Wate	r 4	
	Tempera- true	27.8		pН	6.24	E.C	0.176	mS/cm	
Water	TDS	114	mg/L	Salt	0.0 ppt	Turbidity	5.4	NTU	
Quality	Others	Others 1 Clean 2 Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other ()), 4. Dirty, 5. Salty (Sometimes cloudy)							
Contamina- tion	disappears	by drawing. Output O	d. An oil sme tamination o						
Other Resident Conscious- ness									
Remarks						2 3	3.3	685)/.	

****		ZNITADY	(for F 1	o wo 4 o XX	(all Duillin -)		OWJ6-8		
WI	ELL INVI	ENTORY	(for Expl	oratory W	(ell Drilling)	Survey Date	28 Oc	t. 2009	
Registered We	ell No.			Zone	Paynesville	Community	1 -	le Joe Bar, k G2	
Location	Easting	313	160	Northing	692892	Elevation	10	m	
Construction	Year	2009 Provider Mr.							
	Туре	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2. Tire, 3. D masonry, 5, Block, 6.Co		hight (m)	0.30	
Well Type/ Dimension	Casing (1) Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	125		Total Depth (m)	3.15	Water Level (m)	1.47		
Water Use/	`	water Wa	shing water	3 Others (cooking	zever (m))	2,3	
Yield	No. of User 500			Volume	15 Gallon / da / persoi	1 otai		Gallon / day	
	1) No dry-uj), 3. Sometimes dr	-up by draw	ing, 4. Water	1	
Condition	Tempera-	own in dry se	· · · · · · · · · · · · · · · · · · ·	1	Water level goes down l	Ì			
	true	27.4		pН	6.28	E.C	0.154	mS/cm	
Water	TDS	100	mg/L			Turbidity	17.8		
Quality	Others	Others 1. Clean Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other ()), 4. Dirty, 5. Salty							
tion	disappears l	by drawing. oy contamina y contamina asure for on	d. An oil sme	ell is felt 🗘. (n oil film is confirmed at Other contamination (b			c	
Other Resident Conscious- ness									
Remarks									

**/1	ETT INIXI		(6 Fl	4 XX 7	/-II D!II!	->		OWJ6-9	
VVI	ELL INVI	ENTORY	(tor Expl	oratory vv	ell Drilling	(,)	Survey Date	28 Oct	t. 2009
Registered We	ell No.			Zone	Paynes	sville	Community		e Joe Bar, k G2
Location	Easting	313	133	Northing	6928	363	Elevation	11	m
Construction	Year	20	03	Provider		Mı	r. Jhames Go	oba	
Well Type/	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2. masonry, 5, I ate, 4. PVC ca	Block .Cor	ncrete	Well head hight (m) 1. Hand pur	0.95
Dimension	Casing	Screen (eel casing wit		m)	Equipment	Draw well, 3	
	Diameter (cm)	65		Total Depth (m)	4.61		Water Level (m)	1.95	
Water Use/	1. Drinking water 2. Washing water)	•	2
Yield	No. of User	25	50	Volume	15	Gallon / day / person	Total		Gallon / day
Dry-up		o, 2. Dry-up), 3. Sor	netimes dry	-up by dra	ving, 4. Wate	r 4
Condition	Tempera-	own in dry se	·	1	. Water level g		E.C	0.173	6/
	true			pН					mS/cm
Water	TDS	112	mg/L		0.0		Turbidity	2.2	NTU
Quality	Others	1.)Clean, 2. 4. Dirty, 5. S		olored (Yello	owish, Browni	sh, Reddish	, Other ()),	1
Contamina- tion	1.Oil Contamination(a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt.) 2. Other contamination (Contamination Cannot be perceived Countermeasure for contamination Disease by water						~ / \		
Other Resident Conscious- ness									
Remarks									

**/1			(C E 1	4 11			OWJ6-10		
W	ELL INVI	ENTORY	(for Explo	oratory w	(ell Drilling)	Survey Date	28 Oc	t. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community	-	le Joe Bar, k G2	
Location	Easting	313	117	Northing	692795	Elevation	12	m	
Construction	Year	19	82	Provider	N	Ir. Amos Tw	eh		
	Type	1.)Dug well/ well/ 3. Otho		Well Head	1.)Nothing, 2. Tire, 3. Di masonry, 5, Block, 6.Co		Well head hight (m)	0.00	
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	75		Total Depth (m)	1.95	Water Level (m)	1.08		
Water Use/		water Wa	shing water	,3.Others (cooking)		2,3	
Yield	No. of User	1	5	Volume	20 Gallon / day / person	LIOIAI	300	Gallon / day	
Dry-up Condition		o, 2. Dry-up i n dry season	•		3. Sometimes dry-up by er level goes down by dra	drawing 4.	Water level	4	
Condition	Tempera- true	27.0		pH	6.47	E.C	0.178	mS/cm	
Water	TDS	115	mg/L	Salt	0.0 ppt	Turbidity	21.9	NTU	
Water Quality	Others 1. Clean, 2. Cloudy 3 Colored (Yellowish, Brownish, Reddish, Other ()), 3								
Contamina- tion	1.Oil Contamination(a.Oil always mixes with well water. b. Although early morning, it eases by drawing. c. Although an oil film is confirm disappears by drawing. d. An oil smell is felt. 2 Other contamination Any contamination cannot be perceived Countermeasure for contamination Disease by water					early mornin		2	
Other Resident Conscious- ness									
		-						100	

**/1	ETT INIXI		(6 E1	4 XX 7	(-11 D-212)		OWJ6-11	
VV I	ELL INVI	ENTORY	(tor Explo	oratory vv	ell Drilling)	Survey Date	28 Oc	t. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	-	le Joe Bar, k G2
Location	Easting	313	094	Northing	692856	Elevation	12	m
Construction		20		Provider	Mr.	James A. M	orris	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block, 9.Com		Well head hight (m)	1.10
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with h Screen (m)	Equipment	1.)Hand pur Draw well, .	
	Diameter (cm)	75		Total Depth (m)		Water Level (m)	,	
Water Use/	1) Drinking	water 2 Wa	shing water	• • •	l)	L	1,2
Yield	No. of User	1500		Volume	15 Gallon / day / person	Total	22500	Gallon / day
Dry-up (1) No dry-uj	o, 2. Dry-up i n dry season			3. Sometimes dry-up by er level goes down by dra	-	Water level	1
Condition	Tempera-	27.7		pH	6.11	E.C	0.177	mS/cm
Water	TDS	115	mg/L	Salt	0.0 ppt	Turbidity	0.0	NTU
Water Quality	Others	1) Clean, 2. 4. Dirty, 5. S	• .	 dored (Yello	 pwish, Brownish, Reddish	n, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases b by drawing. o on cannot be asure for on	y drawing. c l. An oil sme perceived	. Although a	l water. b. Although an o n oil film is confirmed at Other contamination (nr	early mornii	ng, it Any	3
Other Resident Conscious- ness								
Remarks								

***	THE TAILS!		(C E 1	4 11	. 11 15 - 111	`		OWJ6-12	
WI	LLL INVI	ENIORY	(tor Explo	oratory w	ell Drillin	g)	Survey Date	28 Oct	t. 2009
Registered We	ell No.			Zone	Payno	esville	Community	Paynesvill Bloc	le Joe Bar, k G2
Location	Easting	313	101	Northing	692	886	Elevation	12	m
Construction	Year	19	86	Provider		Mı	r. Moses Car	ter	
Well Type/	Туре	1.)Dug well/ 2. Drilled well/ 3. Others 1.)Nothing, 2. Block, 3. (_		Block, 6.Cor		hight (m) 1. Hand pur	
Dimension	Diameter (cm)	Screen (m), 5. Ste	eel casing wit Total Depth (m)	h Screen (<u>m)</u>	Water Level (m)	Draw well, 3	3. Others
Water Use/		water 2. Wa	shing water	, 3. Others (cooking)	l	2
Yield	No. of User	_	0	Volume	15	Gallon / day / person	Total		Gallon / day
Dry-up Condition	1. No dry-uj	Dry-up in dry season	n dry seasor	n (6 months), 3. Sometin	nes dry-up b	y drawing, 4 wing	. Water level	2
Condition	Tempera- true	27.6		pH	6.17	iown by uru	E.C	0.233	mS/cm
Water	TDS	151	mg/L	Salt	0.0	ppt	Turbidity	1.9	NTU
Quality	Others	Others 1. Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other ()), 1							
Contamina- tion	disappears l	by drawing. on ntamination on asure for on	l. An oil sme	ell is felt.\2.	n oil film is c Other contan ear				
Other Resident Conscious- ness		· · · · · · · · · · · · · · · · · · ·							
					23				
Remarks									

***			4 33	/ II D • III•		OWJ6-13	
W)	LLL INVI	ENTORY (for Expl	oratory w	(ell Drilling)	Survey Date	28 Oc	t. 2009
Registered Wo	ell No.		Zone Paynesville		Community	71	le Joe Bar, k G2
Location	Easting	313034	Northing	692941	Elevation	11	m
Construction	Year	2002	Provider	Mı	r. Prince Tho	ones	
Well Type/ Dimension	Туре	1.Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block, 9.Co.		Well head hight (m)	0.60
	Casing			Concrete colgate, 4. PVC casing with el casing with Screen (m)		1. Hand pur Draw well,	
	Diameter (cm)	80	Total Depth (m)	4.09	Water Level (m)	1.45	o. Others
Water Use/		water. Washing water	_	cooking)	l	2,3
Yield	No. of User	10	Volume	15 Gallon / day / person	LIOTAL	150	Gallon / day
Dry-up Condition		p, 2. Dry-up in dry seaso n dry season (1 week		, 3. Sometimes dry-up by ater level goes down by di	drawing, 4.	Water level	4
Condition	Tempera- true	_	pH	6.17	E.C	0.102	mS/cm
Water	TDS	66 mg/L	Salt	0.0 ppt	Turbidity	1.4	NTU
Quality	Others	1) Clean, 2. Cloudy, 3. C 4. Dirty, 5. Salty	 Colored (Yello	l owish, Bro wnish, Reddish	n, Other (in o	dry season)).	1,3
Contamina- tion		on	on 6 times/yea)-3. Any	
Other Resident Conscious- ness	Disease by V	vater			1 3 5 E	ARIEN C	
Remarks							

**/1	ETT TNIX/I		(f F1	4 XX	(-II D:II:)		OWJ6-14		
W	ELL INVI	ENTORY	(for Explo	oratory W	ell Drilling)	Survey Date	28 Oct	t. 2009	
Registered We	ell No.			Zone	Paynesville	Community	Paynesvill Bloc	e Joe Bar, k G2	
Location	Easting	312	967	Northing	692998	Elevation	11	m	
Construction	Year	19	93	Provider		r. Joseph Wi			
	Туре	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6.Co		Well head hight (m)	0.45	
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	gate, 4. PVC casing with the Screen (m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	80		Total Depth (m)	3.45	Water Level (m)	0.98		
Water Use/	1)Drinking	water 2 Wa	shing water,	, 3. Others ()			1,2	
Yield	No. of User	50)0	Volume	15 Gallon / day / person	I I OIAI	7500	Gallon / day	
Dry-up (Condition	1) No dry-uj goes down i	o, 2. Dry-up in dry season			, 3. Sometimes dry-up by er level goes down by dra	· ·	Water level	1	
	Tempera- true	27.9		рН	5.99	E.C	0.058	mS/cm	
Water	TDS	38	mg/L	Salt	0.0 ppt	Turbidity	0.2	NTU	
Quality	Others (1) Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other ()), 4. Dirty, 5. Salty								
Contamina- tion	early morni disappears l	ng, it eases b oy drawing. o on cannot be asure for on	y drawing. c l. An oil sme perceived	. Although a	l water. b. Although an o n oil film is confirmed at Other contamination (ear			3	
Other Resident Conscious- ness			walked IV					m mag	
Remarks									

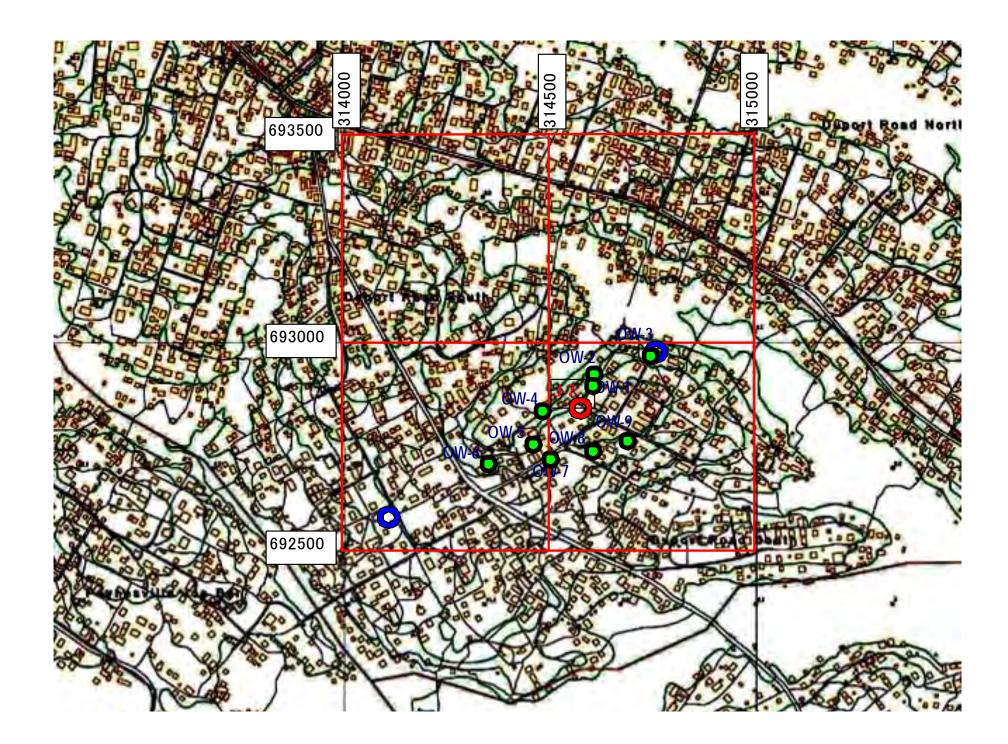
X X 7 1	CT T TAIX/I		(f F1	4 XX	(-II D:II:)		OWJ6-15			
VVI	ELL INVI	ENTORY	(IOT EXPIC	oratory vv	ell Drilling)	Survey Date	28 Oct	t. 2009		
Registered Wo	ell No.			Zone	Paynesville	Community	Paynesvill Bloc	le Joe Bar, k G2		
Location	Easting	312	943	Northing	692974	Elevation	11	m		
Construction	Year	20	05	Provider	Mr.	Freeman Ga	rway			
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6, Co.		Well head hight (m)	0.50		
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3			
	Diameter (cm)	75		Total Depth (m)	3.90	Water Level (m)	0.83			
Water Use/		water Wa	shing water		cooking)		2,3		
Yield	No. of User	10	00	Volume	11 Gallon / day / person	I I OTAL	1100	Gallon / day		
Dry-up Condition	1. No dry-uj	Dry-up in dry season	in dry seasor	(4 months)), 3. Sometimes dry-up by er level goes down by dra	y drawing, 4.	Water level	2		
Condition	Tempera- true	28.0		pH	5.89	E.C	0.277	mS/cm		
Water	TDS	180	mg/L	Salt	0.1 ppt	Turbidity	2.6	NTU		
Water Quality	Others 1) Clean, 2. Cloud (3). Colored (Yellowish, Brownish, Reddish, Other (in dry season)) 4. Dirty, 5. Salty									
	1.Oil Contamination(a.Oil always mearly morning, it eases by drawing. disappears by drawing. d. An oil smoontamination cannot be perceived Countermeasure for contamination Disease by water							3		
Contamina- tion	contaminati Countermea contaminati	by drawing. on cannot be asure for on	d. An oil sme perceived		Other contamination (early mornin	ng, it (). Any			
	contaminati Countermea contaminati	by drawing. on cannot be asure for on	d. An oil sme perceived	ell is felt.) 2. (Other contamination (early mornii	- ^			
Other Resident Conscious-	contaminati Countermea contaminati	by drawing. on cannot be asure for on	d. An oil sme perceived	ell is felt.) 2. (Other contamination (early morning	- ^			

***	EL L'ANYI		(6 F1	4 XX	(-II D!II)		OWJ6-16		
VV I	ELL INVI	ENIURY	(Ior Explo	oratory w	ell Drilling)	Survey Date	28 Oc	t. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community	-	le Joe Bar, k G2	
Location	Easting	312	902	Northing	692866	Elevation	12	m	
Construction	Year								
	Туре	1.Dug well/ 2. Drilled well/ 3. Others		Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block, 6 Cor		Well head hight (m)	0.40	
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well,		
	Diameter (cm)	80		Total Depth (m)	4.30	Water Level (m)	0.80		
Water Use/	1) Drinking	water,2)Wa	shing water		cooking)	l	1,2	
Yield	No. of User	50	00	Volume	15 Gallon / day / person	Total	1500	Gallon / day	
Dry-up Condition		o, 2. Dry-up i			3. Sometimes dry-up by yel goes down by drawing		Water level	4	
Condition	Tempera- true	27.7		pH	6.15	E.C	0.294	mS/cm	
Water	TDS	191	mg/L	Salt	0.1 ppt	Turbidity	3.4	NTU	
Quality	Others	1) Clean, 2. 4. Dirty, 5. S	• .	olored (Yello	wish, Brownish, Reddish	a, Other ()),	1	
Contamina- tion	early morni disappears l	ng, it eases b by drawing. o on cannot be asure for on	y drawing. c d. An oil sme perceived	. Although a	l water. b. Although an o n oil film is confirmed at Other contamination (ear	early mornin	ng, it Any	3	
Other Resident Conscious-		· · · · · · · · · · · · · · · · · · ·							
ness									
Remarks									

1 3/1	ZII INIVI	TNTODY	(for Evol	anatany W	ell Drilling)		OWJ6-17	
VVI	ZLL IIVVI	MIOKI	(101 Explo	ratory w	en Drining)	Survey Date	28 Oct	t. 2009
Registered We	ell No.			Zone	Paynesville	Community	Paynesvill Bloc	le Joe Bar, k G2
Location	Easting	312	929	Northing	692846	Elevation	12	m
Construction	Year	19	97	Provider	Mr.	James K. Su	ımbo	
	Type	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6.00		Well head hight (m)	0.62
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3	
,	Diameter (cm)	90		Total Depth (m)	5.29	Water Level (m)	2.06	
Water Use/	-	water . Wa	shing water,		cooking)		1,2
Yield	No. of User	10	00	Volume	15 Gallon / day	LIOIAL	1500	Gallon / day
	No dry-up		in dry seasor		, 3. Sometimes dry-up by er level goes down by dra	drawing, 4.	Water level	1
	Tempera- true	27.2		рН	6.09	E.C	0.167	mS/cm
Water	TDS	108	mg/L	Salt	0.0 ppt	Turbidity	0.0	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S		olored (Yello	l owish, Brownish, Reddisl	n, Other ()),	1
Contamina- tion	disappears l	oy drawing. on mination can nsure for on	d. An oil sme nnot be perc	ell is felt. 2. (n oil film is confirmed at Other contamination (bl ear)
Other Resident Conscious- ness								
Remarks								

**/1	ETT INIXI		(6 F1	4 XX	-11 D-2112	`		OWJ6-18	
W	ELL INVI	ENIORY	(Ior Expl	oratory w	ell Drilling)	Survey Date	28 Oc	t. 2009
Registered We	ell No.			Zone	Paynes	Paynesville Community		1	le Joe Bar, k G2
Location	Easting	312	959	Northing	69278	81	Elevation	14	n
Construction	Year	19	96	Provider			UNICEF		
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. masonry, 5, B			Well head hight (m)	0.4
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC ca h Screen (sing with m)	Equipment	1. Hand pur Draw well, 3	
Difficusion	Diameter (cm)	105		Total Depth (m)	9.08	III)	Water Level (m)	3.77	o. Others
Water Use/	_	water 2 Wa	shing water	, 3. Others (cooking)		1,2
Yield	No. of User	1	5	Volume	10	Gallon / day / person	Total	150	Gallon / da
Dry-up Condition		p, 2. Dry-up i n dry season			3. Sometimes er level goes do	dry-up by	-	Water level	1
Condition	Tempera- true	28.2		pH	6.39	-	E.C	0.106	mS/cr
Water	TDS	69	mg/L	Salt	0.0	ppt	Turbidity	0.0	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S		olored (Yello	u owish, Brownis	sh, Reddish	, Other ()),	1
Contamina- tion	disappears l	by drawing. on cannot be asure for on	d. An oil sm		n oil film is co Other contami		early mornii	ng, it 3. Any	3
Other Resident Conscious- ness									
Remarks									

J-7 AREA



XX 71	ETT TNIX/I		(f F1	4 XX	all Darles a		OWJ7-1		
VV I	ELL INVI	ENIUKY	(tor Expid	oratory vv	(ell Drilling)	Survey Date	30 Oc	t. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community	-	oad South, Town	
Location	Easting	314	602	Northing	612898	Elevation	9	9 m	
Construction	Year	20	01	Provider	N	Mr. Harris M. D	ennis		
	Туре	1.Dug well/ 2. Drilled well/ 3. Others		Well Head	1. Nothing, 2. Tire, 3 masonry, 5, Block		Well head hight (m)	0.0	
Well Type/ Dimension	Casing	1. Nothing, 2. Block 3 C		Concrete colg	ate, 4. PVC casing wi		1. Hand pur Draw well, 3		
Difficusion	Diameter (cm)	65		Total Depth (m)	6.53	Water Level (m)	3.80	o. Others	
Water Use/		water,). Wa		· • · · · ·)		2	
Yield	No. of User	2:	50	Volume	15 Gallon /	I I OIAI	3750	Gallon / day	
Dry-up Condition	1.No dry-uj	l p, 2. Dry-up i own in dry se			•	dry-up by drav	ving, 4. Wate	r 1	
Condition	Tempera-	27.4	·	pH	6.38	E.C	0.043	mS/cm	
Water	TDS	28	mg/L	Salt	0.0	ppt Turbidity	0.5	NTU	
Quality	Others	1.)Clean, 2. 4. Dirty, 5. S		olored (Yello	wish, Brownish, Red	dish, Other ()),	1	
Contamina- tion		mination car asure for	not be perce		Other contamination	blowing dust, i	eaves)		
	Disease by v	vater							
Other Resident Conscious- ness		S. 30 i N. 10							
Remarks									

**/1			/6 E l	4 11	(II D. 9II)		OWJ7-2		
VV I	ELL INVI	ENIUKY	(10r Explo	oratory vv	(ell Drilling)	Survey Date	30 Oc	t. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community	Duport Ro Zubah	oad South, Town	
Location	Easting	314	616	Northing	692923	Elevation	8	m	
Construction	Year	20	006	Provider	N	Irs. Rose Pete	ers		
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. Di masonry, 5, Block, 6)Co		Well head hight (m)	0.70	
Well Type/ Dimension	Casing		2. Block (3) (Concrete colg	ate, 4. PVC casing with	Equipment	1. Hand pur Draw well,		
	Diameter (cm)	65		Total Depth (m)	5.52	Water Level (m)	2.83		
Water Use/	_	Drinking water 2 Washing water, 3. Others (
Yield	No. of User	4:	50	15 Gallon / day	LIOTAL	6750	Gallon / day		
Dry-up Condition		Own in dry se	in dry seasor), 3. Sometimes dr Water level goes down b	y-up by draw	ving, 4. Wate	r ₂	
Condition	Tempera-	27.4	•	pH	6.26	E.C	0.058	mS/cm	
***	TDS	37	mg/L	Salt	0.0 ppt	Turbidity	1.2	NTU	
Water Quality	Others	1) Clean, 2. 4. Dirty, 5. S	Cloudy, 3. C		wish, Brownish, Reddisl	_)),	1	
Contamina- tion		mination car asure for	not be perce		Other contamination ()		
Other	Disease by v	vater							
Resident Conscious- ness									
Remarks									

171 T TAIS 7T	ZNITADE?	(for E 1	o-mo-4-o XX7	all D-202	~)		OWJ7-3	
ELL INVI	ENIURY	(Ior Expl	oratory w	en Drillin	g)	Survey Date	30 Oct	t. 2009
ell No.			Zone	Payno	esville	Community		oad South, Town
Easting	314	796	Northing	692	970	Elevation	8	m
Year			Provider			NGO		
Туре	well/ 3. Oth	ers	Well Head	masonry, 5,	Block,6Cor		hight (m)	0.40
Casing	_				easing with m)	Equipment		
Diameter (cm)	75	,,	Total	6.70		Water Level (m)	3.30	
		2						
No. of User	50	00	Volume	15	Gallon / day / person	Total		Gallon / day
), 3. So	metimes dry	-up by draw	ving, 4. Wate	r 1
Tempera-	28.1	· · · · · · · · · · · · · · · · · · ·		6.05	goes down b	y drawing E.C	0.148	mS/cm
true TDS	96			0.0	ppt	Turbidity	3.4	NTU
Others		Cloudy, 3. C		 owish, Brown		-)),	1
disappears l 3. Any conta Countermea	by drawing. on amination can asure for on	d. An oil smo	ell is felt .) . (2
	ell No. Easting Year Type Casing Diameter (cm) 1. Drinking No. of User 1) No dry-uplevel goes do Temperatrue TDS Others 1.Oil Containe arly morning disappears in the search of the search	Easting 314 Year Type 1.Dug well/well/3. Other Casing 1. Nothing, 2. Screen (Diameter (cm) 75 1. Drinking water 2 Wa No. of User 50 1 No dry-up, 2. Dry-up in the level goes down in dry service true 28.1 TDS 96 1. Clean, 2. 4. Dirty, 5. Service true 4. Dirty, 5. Service true 6. Clearly morning, it eases be disappears by drawing.	ell No. Easting 314796 Year Type 1. Dug well/ 2. Drilled well/ 3. Others Casing 1. Nothing, 2. Block 3. Conduction of Casing Screen (m), 5. Storem (m),	Easting 314796 Northing Year Provider Type 1.Dug well/ 2. Drilled well Head well/ 3. Others Casing 1. Nothing, 2. Block 3. Concrete colg Screen (m), 5. Steel casing with Diameter (cm) Total Depth (m) 1. Drinking water 2. Washing water, 3. Others (Mo. of User Soo Volume 1. No dry-up, 2. Dry-up in dry season (1 week level goes down in dry season (3 months), 5. Temperatrue 28.1 °C pH TDS 96 mg/L Salt 1. Clean, 2. Cloudy, 3. Colored (Yellow) 4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mixes with well early morning, it eases by drawing. c. Although a disappears by drawing. d. An oil smell is felt. 2. Gountermeasure for contamination	Easting 314796 Northing 692 Year Provider Type 1. Dug well/ 2. Drilled well/ 3. Others Well Head masonry, 5, Casing 1. Nothing, 2. Block 3. Concrete colgate, 4. PVC of Screen (m), 5. Steel casing with Screen (Diameter (cm) Total Depth (m) 6.70 1. Drinking water 2. Washing water, 3. Others (No. of User 500 Volume 15 1. No dry-up, 2. Dry-up in dry season (1 week), 3. Solevel goes down in dry season (3 months), 5. Water level Temperatrue 28.1 °C pH 6.05 TDS 96 mg/L Salt 0.0 1. Clean, 2. Cloudy, 3. Colored (Yellowish, Brown 4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mixes with well water. b. Al early morning, it eases by drawing. c. Although an oil film is codisappears by drawing. d. An oil smell is felt 2. Other contamination Cannot be perceived Countermeasure for contamination	Easting 314796 Northing 692970 Year Provider Type 1.)Dug well/ 2. Drilled well/ 3. Others Well Head masonry, 5, Block 6Cor More from masonry, 5, Block 6Cor masonry, 5, Elock 6Cor masonry, 5, Block 6Cor ma	Easting 314796 Northing 692970 Elevation Year Provider NGO Type 1. Dug well/ 2. Drilled well/ 3. Others Casing 1. Nothing, 2. Block 3. Concrete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Diameter (cm) 75 Total Depth (m) 1. Drinking water 2. Washing water, 3. Others (No. of User 500 Volume 15 Gallon / day / person 1. No dry-up, 2. Dry-up in dry season (1 week level goes down in dry season (3 months), 5. Water level goes down by drawing Temperatrue 28.1 °C pH 6.05 E.C TDS 96 mg/L Salt 0.0 ppt Turbidity 1. Oil Contamination (a.Oil always mixes with well water. b. Although an oil mixing is cearly morning, it eases by drawing. c. Although an oil film is confirmed at early morning it eases by drawing. d. An oil smell is felt. 2. Other contamination (blowing dust, 3. Any contamination cannot be perceived Countermeasure for contamination	ELL INVENTORY (for Exploratory Well Drilling) Survey Date 30 Oct

Construction Year Provider Sister Darlene Type 1. Dug well/ 2. Drilled well/ 3. Others	**/1			(C E 1	4 11	(II I		OWJ7-4	
Location Easting 314487 Northing 692839 Elevation 9 m	WI	ELL INVI	ENTORY ((for Explo	oratory W	ell Drilling)	-	30 Oc	t. 2009
Construction Year Provider Sister Darlene	Registered We	ell No.			Zone	Paynesville	Community	-	
Type Dimension Type Dimension Type Dimension Casing L. Nothing, 2. Block Sconcrete colgate, 4. PVC casing with Equipment Dimension Dimensi	Location	Easting	314	487	Northing	692839	Elevation	9	m
Well Type/ Dimension Vell Head masonry, 5, Block Concrete hight (m) 0.0	Construction				Provider				
Dimension Casing Screen (m), 5. Steel casing with Screen (m) Equipment Draw well, 3. Others		Type			Well Head			hight (m)	0.60
Water Use/ Yield Water Use/ Yield No. of User Dry-up (D) No dry-up, 2. Dry-up in dry season (1 week level goes down in dry season (1 week level goes down by drawing, 4. Water level goes down in dry season (1 week level goes down by drawing) Temperatrue TDS 68 mg/L Salt Others Others 1.0il Contamination (a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing, d. An oil smell is felt.) 2. Other contamination Other Resident Connections are supported by water. Other Resident Consciousness		Casing					Equipment		
Water Use/ Vield No. of User 500 Volume 15 Gallon / day / person Total 7500 Gall					Total				
No. of User 500 Volume 15 // person Total 7500 Gallon / da Dry-up (1) No dry-up, 2. Dry-up in dry season (1 week 1), 3. Sometimes dry-up by drawing, 4. Water level goes down in dry season (1), 5. Water level goes down by drawing Temperatrue 28.5 °C pH 6.88 E.C 0.104 mS/cr TDS 68 mg/L Salt 0.0 ppt Turbidity 0.0 NTU (1) Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other (1)), 1	Water Use/		water (.). Wa	shing water	• • • • • • • • • • • • • • • • • • • •				1,2
Dry-up Condition 1 No dry-up, 2. Dry-up in dry season (1 week), 3. Sometimes dry-up by drawing, 4. Wate level goes down in dry season (), 5. Water level goes down by drawing Temperatrue	Yield	No. of User	50	00	Volume	15 .	TIOTAL	7500	Gallon / day
Water Quality TDS 68 mg/L Salt 0.0 ppt Turbidity 0.0 NTU Others 1.Oil Contamination (a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt.) 2. Other contamination Contamination Disease by water Other Resident Consciousness), 3. Sometimes di	y-up by draw	ving, 4. Wate	r 1
Water Quality TDS 68 mg/L Salt 0.0 ppt Turbidity 0.0 NTO Others 1. Oil Contamination (a. Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt.) 2. Other contamination (Contamination cannot be perceived Countermeasure for contamination Disease by water Other Resident Consciousness	Condition	Tempera-		`	1		Ì	0.104	mS/cm
Quality Others 1.Oil Contamination(a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt.) 2. Other contamination Contamination Countermeasure for contamination Disease by water Other Resident Consciousness	Water		68	mg/L	Salt	0.0 pp	t Turbidity	0.0	NTU
Contamination Contamination Contamination Disease by water Consciousness Consciousness Contamination Contamination Disease by water Consciousness					olored (Yello	l owish, Brownish, Reddis	h, Other ()),	1
Other Resident Consciousness		early morni disappears l contaminati Countermea contaminati	ng, it eases by oy drawing. d on cannot be sure for on	y drawing. c l. An oil sme	. Although a	n oil film is confirmed a	t early morni	ng, it	
	Resident Conscious-								
								6	

**/1	ETT INIXI		.l 4 XX	7-11 D-2112)		OWJ7-5	
VV I	ELL INVI	ENTORY (for Exp	oloratory vv	en Drilling)	Survey Date	30 Oc	t. 2009
Registered Wo	ell No.		Zone	Paynesville	Community	-	oad South, Town
Location	Easting	314459	Northing	692756	Elevation	9	m
Construction	Year	1997	Provider	N	Ir. Chris Mi	ah	
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Dr masonry 5. Block, 6.Com		Well head hight (m)	0.47
Well Type/ Dimension	Casing	1.)Nothing, 2. Block, 3.	Concrete colg	gate, 4. PVC casing with	Equipment	1. Hand pur Draw well, 3	_
	Diameter (cm)	130	Total Depth (m)	5.98	Water Level (m)	3.22	
Water Use/		water Washing water		cooking	Lever (III))	2
Yield	No. of User	500	Volume	15 Gallon / day	Total	7500	Gallon / day
Dry-up (<u> </u>	p, 2. Dry-up in dry seas own in dry season (4 n	,), 3. Sometimes dry 5. Water level goes down	 y-up by draw by drawing	ving, 4. Wate	r 1
Condition	Tempera- true		PC pH	5.51	E.C	0.035	mS/cm
Water	TDS	22 mg/	L Salt	0.0 ppt	Turbidity	7.2	NTU
Quality	Others	1) Clean, 2. Cloudy, 3. Dirty, 5. Salty	Colored (Yello	owish, Brownish, Reddish	n, Other ()), 4.	1
Contamina- tion	disappears l	by drawing. d. An oil sr ination cannot be perceasure for Chlorinat on	nell is felt. 🗘	n oil film is confirmed at Other contamination (bl			•
Other Resident Conscious- ness	Warms are	come up in water in dr	y season.				
Remarks							

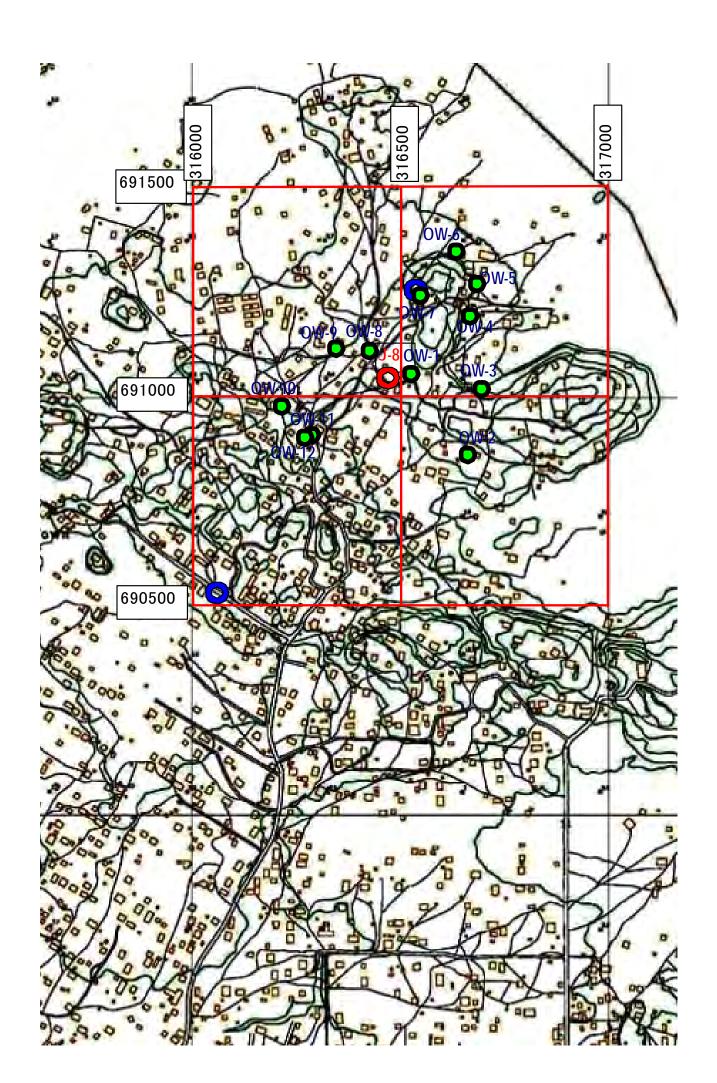
***	DI I INIX		(C E 1	4 11			OWJ7-6	
Wı	ELL INVI	ENTORY	(for Explo	oratory W	(ell Drilling)	Survey Date	30 Oc	t. 2009
Registered We	ell No.			Zone	Paynesville Communit		7	oad South, 1 Town
Location	Easting	314	354	Northing	692713	Elevation	11	m
Construction	Year	20	00	Provider	N	Ir. Bishop Ku	lah	
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. Tire, 3. D masonry, 5, Block 6 Co		Well head hight (m)	0.35
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with	Equipment	1. Hand pur Draw well,	
	Diameter (cm)	100		Total Depth (m)	4.72	Water Level (m)	3.64	
Water Use/	1. Drinking)	2,3					
Yield	No. of User	50	00	Volume	15 Gallon / da	I I OLAL	7500	Gallon / day
Dry-up Condition		o,). Dry-up i goes down in), 3. Sometimes 5. Water level goes dow	dry-up by dr		2
Condition	Tempera- true	27.9	-	pH	5.37	E.C	0.053	mS/cm
Water	TDS	34	mg/L	Salt	0.0 pp	t Turbidity	0.0	NTU
Quality	Others	1) Clean, 2. (4. Dirty, 5. S		olored (Yello	pwish, Brownish, Reddis	h, Other ()),	1
Contamina- tion		ination cann asure for	ot be perceiv		Other contamination ()	olowing dust,	leaves) 3	•
Other Resident	Disease by v	vater						
Conscious- ness								
Remarks								

***	DI I ININZI		(C E 1	4 11		OWJ7-7			
VV I	ELL INVI	ENTORY	(for Explo	oratory W	(ell Drilling)	Survey Date	30 Oc	t. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community	-	oad South, Town	
Location	Easting	314	509	Northing	thing 692720 Elevation 1		11	m	
Construction	Year	20	04	Provider	Mr.	Solomon Tuj	podeh		
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others		Well Head	1. Nothing, 2. Tire, 3. D masonry, 5. Block, 6.Co		Well head hight (m)	0.71	
Well Type/ Dimension	Casing	(1) Nothing, 2. Block, 3. C		Concrete colg		Equipment	1. Hand pur Draw well,		
	Diameter (cm)	150		Total Depth (m)	7.45	Water Level (m)	4.85		
Water Use/		Drinking water 2. Washing water, 3. Others (
Yield	No. of User	50	00	Volume	15 Gallon / day	I I OIAI	7500	Gallon / day	
Dry-up Condition		p, 2. Dry-up i own in dry se	-), 3. Sometimes dr), 5. Water level goes do	y-up by draw		r 4	
Condition	Tempera- true	27.6	·	pH	4.86	E.C	0.045	mS/cm	
Water	TDS	29	mg/L	Salt	0.0 pp	Turbidity	0.0	NTU	
Quality	Others	1) Clean, 2. 4. Dirty, 5. S		olored (Yello	owish, Brownish, Reddis	h, Other ()),	1	
Contamina- tion		on cannot be asure for	perceived	ell is felt.) 2. On 24 times/ye	Other contamination ((3). Any		
Other Resident	Disease by v	vater							
Consciousness									
Remarks									

227 1			(C E	4- TT	(-II D91) \			OWJ7-8	
W	ELL INVI	ENTORY	(for Expl	oratory W	(ell Drilling)		Survey Date	30 Oc	t. 2009
Registered W	ell No.			Zone	Paynesvi	ille	Community	Duport Road Sout Zubah Town	
Location	Easting	314	605	Northing	692745	5	Elevation	10	m
Construction	Year								
	Туре	1.Dug well/ 2. Drilled well/ 3. Others		Well Head	1. Nothing, 2. T masonry, 5, Blo	ire, 3. Di	rum, 4. Stone	Well head hight (m)	0.65
Well Type/ Dimension	Casing		2. Block,(3.)(Concrete colg eel casing wit	ate, 4. PVC casi	ng with	Equipment	1. Hand pur Draw well, 3	
Jinension	Diameter (cm)	80	111), 2. 50	Total Depth (m)	8.42	III)	Water Level (m)	4.95	o. Others
Water Use/	(- /	water,2.)Wa	shing water		cooking		(m))	2,3
Yield	No. of User	10	00	Volume	10 G	allon / day / person	Total	1000	Gallon / day
Ory-up Condition		p(2)Dry-up i own in dry se), 3. Some Water level goe	times dry	-up by draw v drawing	ing, 4. Water	2
<u>Jonation</u>	Tempera- true	28.1	· · · · · · · · · · · · · · · · · · ·	рН	5.70	<i>5</i> 40 ((11 5)	E.C	0.082	mS/cm
Water	TDS	41	mg/L	Salt	0.0	ppt	Turbidity	14.6	NTU
Quality	Others	1. Clean (2) 4. Dirty, 5. S	•	olored (Yello	Dwish, Brownish	, Reddish	o, Other ()),	2
Contamina- ion	early morni disappears	ng, it eases b by drawing. on atamination of asure for on	y drawing. o l. An oil smo	Although a ell is felt. (2)	l water. b. Altho n oil film is conf Other contamina	irmed at	early morni	ng, it	2
Other Resident Conscious- ness	Discuse by the second s			unionum.					

***				/ II D • III•		OWJ7-9	
W	ELL INVI	ENTORY (for Exp	loratory W	(ell Drilling)	Survey Date	30 Oct	t. 2009
Registered Wo	ell No.	UNICEF 3751	Zone	Paynesville	Community	_	oad South, Town
Location	Easting	314686	Northing	692768	Elevation	evation 12	
Construction	Year	1998	Provider		UNICEF		
	Type	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5. Block, 6.Com		Well head hight (m)	
Well Type/ Dimension	Casing		Concrete colg	gate, 4. PVC casing with	Equipment	1.)Hand pur Draw well, 3	
	Diameter (cm)	80	Total Depth (m)		Water Level (m)		
Water Use/		water 2. Washing water)		1,2		
Yield	No. of User	500	Volume	15 Gallon / day	Total	7,500	Gallon / day
		o, 2. Dry-up in dry seaso), 3. Sometimes dry	up by draw	ing, 4. Wate	r 1
Condition	Tempera-	own in dry season (2 m	C pH	5. Water level goes down 5.03	E.C	0.72	mS/cm
	TDS		L Salt		Turbidity	0.0	NTU
Water Quality	(_		owish, Brownish, Reddish	_)),	1
	Others	Direy, et galey					
Contamina- tion	early morni disappears l	ng, it eases by drawing. by drawing. d. An oil sn ination cannot be perce sure for Chlorinati	c. Although a nell is felt.) 2. (_		3
	Disease by v						
Other Resident Conscious- ness							
Remarks	- 1 . 3					4	

J-8 AREA



** 71	DE TANKE	PAITADY	(for F1	o wo 4 o XXI	/all Dwillier =\		OWJ8-1	
W	ELL INVI	ENTORY	(for Explo	oratory W	ell Drilling)	Survey Date	31 Oc	t. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	7	Bor Town, Village OF
Location	Easting	316	522	Northing	691051 Elevation		7	m
Construction	Year	20	09	Provider	N	Ar. Saviel Ky	ne	
	Туре	1.)Dug well/ well/ 3. Otho		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block O.Co		Well head hight (m)	0.55
Well Type/ Dimension	Casing		2. Block(3) (Concrete colg eel casing wit	gate, 4. PVC casing with	Equipment	1. Hand pur Draw well,	
Difficusion	Diameter (cm)	76	m), 5. 5tc	Total Depth (m)	3.72	Water Level (m)	1.20	
Water Use/		water. Wa	shing water		I)		2,3
Yield	No. of User	9)	Volume	15 Gallon / day		135	Gallon / day
Dry-up		p, 2. Dry-up i), 3. Sometimes dry-u	p by drawing	g, 4. Water	4
Condition	Tempera-	own in dry se 26.1	*	pH	5. Water level goes down 6.47	by drawing E.C	0.216	mS/cm
	TDS	140	mg/L		0.0 pp	Turbidity	0.0	
Water Quality	Others		Cloudy 3 C		owish, Brownish, Reddish	-)),	
Contamina- tion	disappears l 3.Any conta Countermea contaminati	by drawing. omination can asure for on	d. An oil sme	ell is felt.52)	n oil film is confirmed at Other contamination (bl nr			
Other	Disease by v	vater						
Resident Conscious- ness								
						A		

4 3 7 1		ZNITODS?	(for F 1	o wo 4 o XX	all D-202	~)		OWJ8-2	
WI	LLL INVI	LNTORY	(Ior Expl	oratory W	eii Drillin	g)	Survey Date	31 Oc	t. 2009
Registered We	ell No.			Zone	Payno	esville	Community	1	Bor Town, Village OF
Location	Easting	316	660	Northing	690	867	Elevation	m	
Construction	Year	20	07	Provider		M	r. York Basl	hir	
	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2 masonry 5,	Block, 6.Con		hight (m)	0.35
Well Type/	Casing (_		Concrete colg		<u> </u>	Equipment	1. Hand pur	_
Dimension	Diameter	Screen (m), 5. Ste	eel casing wit	n Screen (m)	Water	Draw well,	3. Otners
	(cm)	125		Depth (m)	4.75		Level (m)	3.04	
Water Use/	1.Drinking	water 2 Wa	shing water	, 3. Others (T)	T	1,2
Yield	No. of User	5	0	Volume	15	Gallon / day / person	Total	750	Gallon / day
Dry-up		Dry-up i), 3.	Sometimes of	dry-up by dr	awing, 4.	2
Condition		goes down in	dry season	(), 5. Wate	r level goes o	down by dra	wing	
	Tempera- true	26.6	°C	pН	5.38		E.C	0.024	mS/cm
Water	TDS	15	mg/L	Salt	0.0	ppt	Turbidity	14.8	NTU
Quality	Others	1) Clean, 2. (4. Dirty, 5. S	• .	olored (Yello	wish, Brown	ish, Reddish	, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases by y drawing. contaminationsure for	y drawing. c l. An oil smo	ixes with well : Although a ell is felt. 20 perceived	n oil film is c	onfirmed at	early morni	ng, it	2
Other Resident Conscious- ness									
						OF.			
Remarks									

***						OWJ8-3		
W	ELL INVI	ENTORY (for Explo	oratory W	(ell Drilling)	Survey Date	31 Oc	t. 2009	
Registered Wo	ell No.		Zone	Paynesville	Community	7	Bor Town, Village OF	
Location	Easting	316700	Northing	691014	Elevation	7	m	
Construction	Year	2007	Provider	М	r. James Gw	⁷ eh		
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5. Block, 6.Co		Well head hight (m)	0.20	
Well Type/ Dimension	Casing	1) Nothing, 2. Block, 3. (Screen (m), 5. Ste	Concrete colg		Equipment	1. Hand pur Draw well, 3	_	
Difficusion	Diameter (cm)	130	Total Depth (m)	3.10	Water Level (m)	1.83	, omers	
Water Use/		water. Washing water)		2,3			
Yield	No. of User	50	Volume	13 Gallon / day / person	LOTAL	650	Gallon / day	
Dry-up Condition		Dry-up in dry season), 3. Sometimes dry	y-up by draw	ving, 4. Wate	r 2	
Condition	Tempera- true	1	pH	4.94	E.C	0.029	mS/cm	
Water	TDS	18 mg/L	Salt	0.0 ppt	Turbidity	15.5	NTU	
Quality	Others	1) Clean, 2. Cloudy, 3. C 4. Dirty, 5. Salty	olored (Yello	Dwish, Brownish, Reddish	n, Other ()),	1	
Contamina- tion		ion		Other Contamination (Ite	gs, blowing t	uusi, kaves)		
Other Resident Conscious- ness	Disease by V	water						
Remarks								

	ZATANTA	(for E	ama4 ***	all Dadili \		OWJ8-4	
ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling)	Survey Date	31 Oc	t. 2009
ell No.			Zone	Paynesville	Community		Bor Town, Village OF
Easting	316	6673	Northing	691190	Elevation	5	m
Year	20	009	Provider		Mr. Ernest Da	vids	
Туре			Well Head			Well head hight (m)	0.60
Casing				ate, 4. PVC casing w	ith	1. Hand pur Draw well.	
Diameter (cm)			Total	4.50	Water	1.38	
	water 2. Wa	shing watek)		2,3
No. of User	5	60	Volume	1.5	TIOTAL	650	Gallon / day
), 3. Sometime	s dry-up by drav	ving, 4. Wate	r 1
Tempera-		•			İ	0.101	mS/cm
true			-			*****	
Others							1
disappears l 3. Any conta Countermea contaminati	by drawing. Amination can Asure for On	d. An oil sme nnot be perc	ell is felt. 2. (ceived	Other contamination			2
Discuse 3, V	, 4402						
	ell No. Easting Year Type Casing Diameter (cm) 1. Drinking No. of User 1) No dry-uplevel goes do Temperatrue TDS Others 1.Oil Containe early morning disappears in the search of the search	ell No. Easting 316 Year 20 Type 1.)Dug well/ well/ 3. Other Casing 1. Nothing, Screen (Diameter (cm) 76 1. Drinking water 2. Wa No. of User 5 1.) No dry-up, 2. Dry-up level goes down in dry set true 27.6 TDS 65 1.) Clean, 2. Others 1. Oil Contamination (a. Cearly morning, it eases be disappears by drawing.	ell No. Easting 316673 Year 2009 Type 1. Dug well/ 2. Drilled well/ 3. Others Casing 1. Nothing, 2. Block 3.0 Screen (m), 5. Str. Diameter (cm) 76 1. Drinking water 2. Washing water 2. Washing water 3. Compared to 3. Compared to 4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mearly morning, it eases by drawing. of disappears by drawing. d. An oil smeasure for Countermeasure for Contamination Chlorination Contamination Contamination Contamination Chlorination Contamination Chlorination Contamination Chlorination Contamination Chlorination Chlorination Chlorination Contamination Chlorination C	Easting 316673 Northing Year 2009 Provider Type 1.Dug well/ 2. Drilled well / 3. Others Casing 1. Nothing, 2. Block 3. Concrete colg Screen (m), 5. Steel casing with Diameter (cm) Total Depth (m) 1. Drinking water 2. Washing water 3. Others (Mo. of User 50 Volume 1. No dry-up, 2. Dry-up in dry season (1 week level goes down in dry season (2 pH TDS 65 mg/L Salt 1. Clean, 2. Cloudy, 3. Colored (Yello 4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mixes with well early morning, it eases by drawing. c. Although a disappears by drawing. d. An oil smell is felt. 2. Gountermeasure for Chlorination 1 time sinc contamination Chlorination 1 time sinc contamination	Easting 316673 Northing 691190 Year 2009 Provider Type 1.Dug well/ 2. Drilled well/ 3. Others Well Head masonry, 5, Block 1. Nothing, 2. Block 3. Concrete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Diameter 76 Total Depth (m) 1. Drinking wate 2. Washing wate 3. Others (No. of User 50 Volume 13 Gallon / pe 1. No dry-up, 2. Dry-up in dry season (1 week), 3. Sometime level goes down in dry season (m), 5. Water level goes dow	Easting 316673 Northing 691190 Elevation Year 2009 Provider Mr. Ernest Da Type Date 1. Nothing, 2. Drilled well/ 3. Others Casing 1. Nothing, 2. Block (3.) Concrete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Diameter (cm) 76 Total 4.50 Water (cm) 1. Drinking water 2. Washing water 3. Others (No. of User 50 Volume 13 Gallon / day / person Diameter (cm) 2. Dry-up in dry season (1 week), 3. Sometimes dry-up by draw level goes down in dry season (1 week), 5. Water level goes down by drawing Temperatrue 27.6 °C pH 6.26 E.C TDS 65 mg/L Salt 0.0 ppt Turbidity 1. Others 1. Oil Contamination (a.Oil always mixes with well water. b. Although an oil mixing is cearly morning, it eases by drawing. c. Although an oil film is confirmed at early mornidisappears by drawing. d. An oil smell is felt 2. Other contamination (mosquitos, flex 3. Any contamination cannot be perceived Countermeasure for Chlorination 1 time since construction	ell No. Zone Paynesville Community Rihab/Bor Thinkers

***	DI I 13177		(e E 1	4 11	(II D			OWJ8-5	
W)	ELL INVI	ENIORY	(IOT EXPIC	oratory w	(ell Drilling)		urvey ate	31 Oc	t. 2009
Registered Wo	ell No.			Zone	Paynesville	e C	ommunity		Bor Town, Village OF
Location	Easting	3160	687	Northing	691268	E	levation	5	m
Construction	Year	200	09	Provider		Mr. I	Fallah Fato	oma	
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. Tire masonry, 5, Block			Well head hight (m)	1.10
Well Type/	Casing	1. Nothing, 2	2. Block,3/C		ate, 4. PVC casing	with	auinmont	1. Hand pur	
Dimension	Diameter	Screen (m), 5. Ste	el casing wit Total	h Screen (m	1)	Vater	Draw well,	3. Others
	(cm)	80		Depth (m)	4.20		evel (m)	1.45	
Water Use/	1. Drinking	1. Drinking water (2) Washing water (3) Others (cooking							2,3
Yield	No. of User	50	0	Volume	15 Gallo	on / day person T	otal	750	Gallon / day
Dry-up (p, 2. Dry-up i	-), 3. Sometin			ring, 4. Wate	r ₁
Condition		own in dry sea	ason (4 mo	nthes), 5	5. Water level goes	down by	drawing		
	Tempera- true	27.8	°C	pН	6.86	E	.C	0.128	mS/cm
Water	TDS	83	mg/L	Salt	0.0	ppt T	urbidity	13.0	NTU
Quality	Others	1) Clean, 2. (Dirty, 5. Salt		olored (Yello	owish, Brownish, R	Reddish, (Other ()), 4.	1
Contamina- tion		amination car asure for on			Other contamination	on ()	
Other Resident Conscious- ness	Disease by V	vater						We	
Remarks	New well co	nstructed on A	Apr. 16, 2009			Ó			

***				,	7 II IS 1331	,		OWJ8-6	
W	ELL INVI	ENTORY (f	or Expl	oratory W	ell Drilling	g)	Survey Date	31 Oct	t. 2009
Registered W	ell No.			Zone	Payne	esville	Community	Rihab/Bor Thinkers	Bor Town, Village OF
Location	Easting	31663	4	Northing	691	344	Elevation	5	n
Construction		2000		Provider			Mrs. Jeny		
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others		Well Head	1. Nothing, 2 masonry, 5,	Block 6.Coi		hight (m)	0.0
Well Type/ Dimension	Casing	1. Nothing, 2. Screen (Concrete colg eel casing wit		easing with m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	78		Total Depth (m)	3.67		Water Level (m)	1.04	
Water Use/	1. Drinking	1. Drinking water Washing water Others (cooking							2,3
Yield	No. of User	150		Volume		Gallon / day / person			Gallon / da
Dry-up (Condition		o, 2. Dry-up in n dry season (-	n (5. Water lev), 3. Sometim	es dry-up by by drawing	y drawing, 4	Water level	1
	Tempera- true	28.0	°C	pН	6.90		E.C	0.065	mS/cr
Water	TDS	42	mg/L	Salt	0.0	ppt	Turbidity	0.0	NT
Quality	Others	1) Clean, 2. Cl 4. Dirty, 5. Sal	-	olored (Yello	owish, Brown	ish, Reddish	, Other ()),	1
Contamina- tion	early morni disappears l	on	drawing. c An oil sme	. Although a	n oil film is c	onfirmed at			3
Other Resident Conscious- ness									

4 471	DE E ENIETE		(f E	4- TT	(-II D. 'II'			OWJ8-7	
W	ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling	g)	Survey Date	31 Oc	t. 2009
Registered Wo	ell No.			Zone	Payne	esville	Community		Bor Town, Village OF
Location	Easting	316	5548	Northing	691	691246 Elevation		10	m
Construction			006	Provider		Mr. I	ranklin O. S	Siakor	
	Type	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2 masonry, 5,	Block 6.Coi		hight (m)	0.50
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC o h Screen (asing with m)	Equipment	1. Hand pur Draw well, 3	
2 mension	Diameter (cm)	80		Total Depth (m)	6.92	 ,	Water Level (m)	3.13	or Genera
Water Use/	1)Drinking	water 2 Wa	shing water)	•	1,2
Yield	No. of User	50	00	Volume	15		1 otal		Gallon / day
Dry-up Condition	1)No dry-uj goes down i	o, 2. Dry-up n dry season	•	n () 5. Water lev	, 3. Sometime el goes down	es dry-up by by drawing	drawing, 4.	Water level	1
	Tempera- true	28.1		pН	6.82	·	E.C	0.220	mS/cm
Water	TDS	142	mg/L	Salt	0.0	ppt	Turbidity	0.0	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S	• .	olored (Yello	owish, Brown	ish, Reddish	, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases b by drawing. o on cannot be asure for on	y drawing. c d. An oil sme perceived	:. Although a	l water. b. Al n oil film is c Other contan	onfirmed at	l mixing is c early mornii	onfirmed in ng, it 3. Any	3
Other Resident Conscious- ness									
Remarks									

T T71	DI I ININI	ZNITADE?	(for E1	a wa 4 a T T	all Desite	~)		OWJ8-8	
W	ELL INVI	ENTORY	(for Explo	oratory W	ell Drilling	g)	Survey Date	31 Oct	t. 2009
Registered Wo	ell No.			Zone	Payne	sville	Community	Rihab/Bor Thinkers	Bor Town, Village OF
Location	Easting	316	430	Northing	691	102	Elevation	6	m
Construction	Year	20	09	Provider		Ms. l	Roselyn Law	rence	
	Type	1.)Dug well/ well/ 3. Oth	ers		1. Nothing, 2 masonry 5	Block, 6.Cor		hight (m)	0.60
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC c h Screen (asing with m)	Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	80		Total Depth (m)	6.54	,	Water Level (m)	1.68	
Water Use/		water 2. Wa	shing water)		2
Yield	No. of User	150 V		Volume	15	Gallon / day / person	Total	2250	Gallon / day
Dry-up Condition	1.)No dry-up goes down in	p, 2. Dry-up n dry season			, 3. Sometime		-	Water level	1
	Tempera- true	28.1	<u> </u>	pН	8.37		E.C	0.197	mS/cm
Water	TDS	127	mg/L	Salt	0.0	ppt	Turbidity	6.1	NTU
Water Quality	Others	1. Clean, 2. 4. Dirty, 5. S		olored (Ye)lo	owish, Brown	ish, Reddish	o, Other ()),	3
Contamina- tion	disappears l	by drawing. ontamination on asure for on	d. An oil sme	ell is felt()2. (erceived	n oil film is co Other contam				2
Other Resident Conscious- ness									

***		NITODY	(for F1	o-mo-4-o XX7	'all Duillin -		OWJ8-9	
WJ	LLL INVI	LNIUKY	(IOr Explo	oratory W	(ell Drilling)	Survey Date	31 Oc	t. 2009
Registered We	ell No.			Zone	Paynesville	Community	ri .	Bor Town, Village OF
Location	Easting	316	350	Northing	691114	Elevation 6		m
Construction	Year	20	08	Provider	Mı	ibah		
Well Type/	Туре	1.)Dug well/ well/ 3. Other	ers	Well Head	1. Nothing, 2. Tire, 3. D masonry, 5, Block, 6.0 c ate, 4. PVC casing with	Well head hight (m) 1. Hand pur	0.90	
Dimension	Casing	Screen (eel casing wit		Equipment	Draw well,	
	Diameter (cm)	78		Total Depth (m)	4.30	Water Level (m)	1.70	
Water Use/	1. Drinking	water. 3. Wa	shing water	3. Others (cooking)	2,3
Yield	No. of User	5	0	Volume	12 Gallon / da / persoi	TROTAL	600	Gallon / day
Dry-up Condition	1)No dry-up level goes do	o, 2. Dry-up own in dry se), 3. Sometimes dry-up Water level goes down l	· O	4. Water	1
	Tempera- true	28.1	°C	pН	7.37	E.C	0.309	mS/cm
Water	TDS	201	mg/L	Salt	0.1 pp	Turbidity	35.3	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S		olored (Yello	wish, Brownish, Reddis	h, Other ()),	3,4
Contamina- tion	disappears l	oy drawing. ontamination on	d. An oil sme	ell is felt. 2. (erceived	n oil film is confirmed a Other contamination (b			2
Other Resident Conscious- ness								
Remarks								

***	DI I INIXI			4 11	7 II 13 *II *)		OWJ8-10	
W	ELL INVI	ENIORY (1	or Expi	oratory w	ell Drilling)	Survey Date	31 Oc	t. 2009
Registered We	ell No.			Zone	Paynesville	Community		Bor Town, Village OF
Location	Easting	3162	20	Northing	690974	Elevation	8	m
Construction		2000		Provider		Mr. Takpor		
	Туре	1.)Dug well/ 2 well/ 3. Other		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5 Block, 6.Co		Well head hight (m)	0.40
Well Type/ Dimension	Casing	1) Nothing, 2. Screen (Concrete colg	gate, 4. PVC casing with th Screen (m)	Equipment	1. Hand pur Draw well,	- 0
	Diameter (cm)	140		Total Depth (m)	4.49	Water Level (m)	1.87	
Water Use/	1. Drinking	water. Was	ning water	3 Others ()		2,3
Yield	No. of User				7 Gallon / day / person	Total	84	Gallon / day
Dry-up (Condition		p, 2. Dry-up in n dry season (drawing, 4.	Water level	1		
	Tempera- true	27.9	°C	pН	7.44	E.C	0.180	mS/cm
Water	TDS	117	mg/L	Salt	0.0 ppt	Turbidity	16.4	NTU
Quality	Others	1. Clean (2) C 4. Dirty, 5. Sa	• .	olored (Yello	owish, Brownish, Reddish	, Other ()),	2
Contamina- tion	early morni disappears	ng, it eases by by drawing. d. amination cam asure for	drawing. o An oil sm	e. Although a	l water. b. Although an o n oil film is confirmed at Other contamination (blo	early morning	ng, it	
	Disease by v	vater						
Other Resident Conscious-								

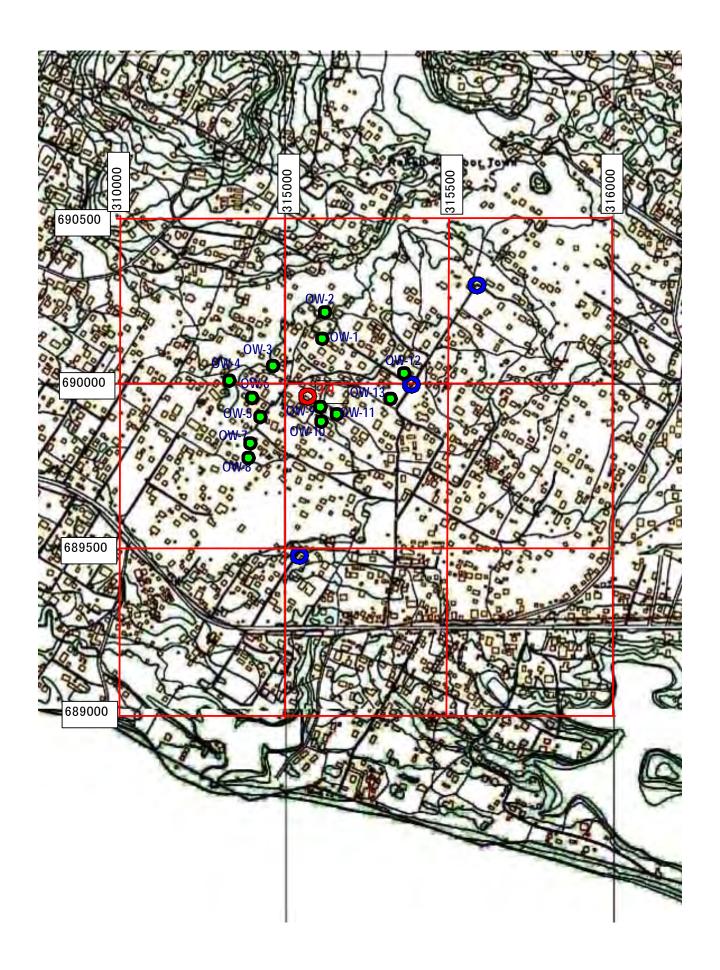




** 77	CTT TNIX/T	NTADV	(for E1	onoton- III	all Duilli	α)		OWJ8-11	
VVI	ELL INVI	ENIUKY	(10r Expl	oratory vv	ell Drillin	g)	Survey Date	31 Oc	t. 2009
Registered We	ell No.			Zone	Payno	esville	Community	ri	Bor Town, Village OF
Location	Easting	316	5286	Northing	690	914	Elevation	7	m
Construction	Year	20	009	Provider		Mr	. Korlu K. S	осо	
	Type	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2 masonry, 5,	Block .Cor		hight (m)	0.60
Well Type/	Casing	_ ·			ate, 4. PVC	<u> </u>	Equipment	1. Hand pur	
Dimension	Diameter	Screen (eel casing wit	n Screen (m)	Water	Draw well,	3. Otners
	(cm)	80		Depth (m)	6.80		Level (m)	2.62	
water Use/	1) Drinking	water . Wa	shing water	, 3. Others (Т)	T	1,2
Yield	No. of User	5	60	Volume	15	Gallon / day / person	Total	7500	Gallon / day
Dry-up (1.)No dry-uj				, 3. Sometime	es dry-up by		Water level	1
Condition	0	n dry season	(6 momths), 5. Water l	evel goes dov	n by drawir	ıg	1	1
	Tempera- true	27.9	°C	pН	7.06		E.C	0.129	mS/cm
Water	TDS	84	mg/L	Salt	0.0	ppt	Turbidity	0.0	NTU
Quality	Others	1.)Clean, 2. 4. Dirty, 5. S		olored (Yello	owish, Brown	ish, Reddish	, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases b by drawing. o ination cann asure for on	y drawing. c d. An oil smo ot be percei	e. Although a ell is felt.) 2. (l water. b. Al n oil film is c Other contan	onfirmed at			3
Other Resident Conscious- ness									
Remarks									

XX /1	CII INIXI			(-II D:II:)		OWJ8-12	
W	LLL INVI	ENTORY (for Ex	pioratory w	en Drilling)	Survey Date	31 Oct	t. 2009
Registered We	ell No.		Zone	Paynesville	Community	1	Bor Town, Village OF
Location	Easting	316277	Northing	690903	Elevation	7	m
Construction	Year	2004	Provider	Mı	. Garyah To	meh	
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block 6, Co		Well head hight (m)	0.55
Well Type/ Dimension	Casing	0.	3 Concrete colg Steel casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	85	Total Depth (m)	5.62	Water Level (m)	2.78	
Water Use/	` · ·	water 2 Washing wa)		1,2
Yield	No. of User	500	Volume	11 Gallon / day	LOTAL	5500	Gallon / day
Dry-up (o, 2. Dry-up in dry sea		, 3. Sometimes dry-up by evel goes down by drawi	drawing, 4.	Water level	1
Condition	Tempera-	28.3	°C pH	6.43	E.C	0.043	mS/cm
***	true TDS	28 m;	g/L Salt	0.0 ppt	Turbidity	0.0	NTU
Water Quality	Others			wish, Brownish, Reddisl	·)),	1
Contamina- tion	Any contam Countermea contaminati		ceived tion 48 times/ye	ar			
	Disease by v	vater					
Other Resident Conscious- ness							
Remarks							

J-9 AREA



***			(C E 1	4 11	. 11 15 - 111	`		OWJ9-1	
W	ELL INVI	ENTORY	(for Expl	oratory W	ell Drillin	g)	Survey Date	02 No	v. 2009
Registered Wo	ell No.			Zone	Payno	esville	Community	7	Bor Town, Town OF
Location	Easting	315	155	Northing	690	129	Elevation	7	m
Construction	Year	20	07	Provider		M	r. John Leb	bie	
	Туре	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2 masonry, 5,	Block 6.Cor		Well head hight (m)	0.68
Well Type/ Dimension	Casing	1. Nothing, Screen (Concrete colg	ate, 4. PVC o	casing with m)	Equipment	1. Hand pur Draw well,	
	Diameter (cm)	65		Total Depth (m)	4.60	III)	Water Level (m)	1.14	
Water Use/	1) Drinking	water 2. Wa	shing water)	l	1,2
Yield	No. of User	50	00	Volume	15	Gallon / day / person	Total	7500	Gallon / day
Dry-up		Dry-up), 3. So	metimes dry	-up by draw	ving, 4. Wate	r ₂
Condition	Tempera-	own in dry se	· · · · · · · · · · · · · · · · · · ·		Water level	goes down b	, i	0.411	G/
	true	26.9	<u>-</u>	pН	6.19		E.C	0.411	mS/cm
Water	TDS	267	mg/L		0.1		Turbidity	3.3	NTU
Quality	Others	1. Clean(2) 4. Dirty, 5. S		colored (Yello	owish, Brown	ish, Reddish	, Other ()),	1
Contamina- (disappears l	by drawing. mination can asure for on	d. An oil smo	ell is felt.) 2. (n oil film is c Other contan		early morni	ng, it	
Other Resident Conscious- ness									
Remarks									

***			1 4 11	(II D		OWJ9-2		
W)	ELL INVI	ENTORY (for Exp	pioratory w	eli Drilling)		Survey Date	02 No	v. 2009
Registered Wo	ell No.		Zone	Paynesvi	lle	Community	ri .	Bor Town, Town OF
Location	Easting	315153	Northing	690216	690216 Elevation		6	m
Construction	Year	2006	Provider		Mr.	Garmin Jac	kson	
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. T masonry, 5, Blo			Well head hight (m)	0.75
Well Type/ Dimension	Casing	1. Nothing, 2. Block 3		Congress collecte 4 DVC easing with		Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	70	Total Depth (m)	3.91	3.91		1.03	
Water Use/	_	water 2 Washing wat				Level (m)		1,2
Yield	No. of User	500	Volume	15 Ga	allon / day / person	Total	7500	Gallon / day
Dry-up (Condition		o, 2. Dry-up in dry seas goes down in dry seaso), 3. Son), 5. Water le	netimes d	l lry-up by dr lown by dra		1
	Tempera- true	26.6	°C pH	6.09		E.C	0.174	mS/cm
Water	TDS	113 mg	/L Salt	0.0	mg/L	Turbidity	11.9	NTU
Quality	Others	1) Clean, 2. Cloudy, 3. 4. Dirty, 5. Salty	. Colored (Yello	owish, Brownish,	, Reddish	, Other ()),	1
Contamina- tion	disappears l	on	mell is felt.) 2. (Other contamina		early mornii	ng, it)	
Other Resident Conscious- ness								
Remarks								

XX 71	CTT INIX/I	ZNITODN (A	fon Erml		(all Duilling)		OWJ9-3		
VVI	ELL INVI	ENIORY (I	or Expid	oratory vv	(ell Drilling)		Survey Date	02 Nov	v. 2009
Registered Wo	ell No.			Zone	Paynesv	ille	Community	Rihab/Bor Kendeh	
Location	Easting	3150	16	Northing	69004	7	Elevation	7	m
Construction	Year	200	7	Provider		I	Mr. Pa Nelso	n	
	Туре	1.)Dug well/ 2 well/ 3. Other		Well Head	1. Nothing, 2. T			Well head hight (m)	0.16
Well Type/ Dimension	Casing	1) Nothing, 2. Screen (Concrete colg	ate, 4. PVC cas h Screen (ing with m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	105		Total Depth (m)	2.37		Water Level (m)	0.26	
Water Use/		water, 3. Wasl	hing water		cooking)	<u> </u>	2,3
Yield	No. of User	50		Volume	13 G	allon / day / person	Total	650	Gallon / day
Dry-up Condition		Dry-up in own in dry seas				etimes dry	y-up by draw	ving, 4. Wate	r ₂
	Tempera- true	27.3	°C	pН	6.26		E.C	0.190	mS/cm
Water	TDS	123	mg/L	Salt	0.0	mg/L	Turbidity	16.1	NTU
Quality	Others	1. Clean, 2. Cl 4. Dirty, 5. Sa		olored (Yell)	owish, Brownish	, Reddish	, Other ()),	3
Contamina- tion	early morni disappears	ng, it eases by by drawing. d. on cannot be p asure for on	drawing. c An oil sme	. Although a	l water. b. Altho n oil film is cont Other contamin	firmed at	early morni	ng, it	y y
Other Resident Conscious- ness									
Remarks									

W	WELL INVENTORY (for Exploratory Well Drilling)								OWJ9-4		
	ELL INVI	ENTORY	(for Expl	oratory W	ell Drillin	g)	Survey Date	02 No	v. 2009		
Registered W	ell No.			Zone	Payne	esville	Community	ri .	Bor Town, Town OF		
Location	Easting	314	832	Northing	690	002	Elevation	6	m		
Construction	Year	20	08	Provider			Mr. Isac				
Well Type/ Dimension	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2 masonry, 5,	Block 6 .Coi	icrete	hight (m)	0.89		
	Casing	1. Nothing, 2 Screen (2. Block(3) (m), 5. Ste	Concrete colg eel casing wit	ate, 4. PVC o h Screen (casing with m)	Equipment	1.)Hand pur Draw well, 3	_		
	Diameter (cm)	75		Total Depth (m)	3.62		Water Level (m)	1.05			
Water Use/		water(,2). Wa	shing water)		2,3		
Yield	No. of User	50		Volume	15	Gallon / day / person	Total		Gallon / day		
Dry-up Condition	1) No dry-uj level goes do	p, 2. Dry-up i own in dry se), 3. So Water level ;	metimes dry	v-up by draw	ving, 4. Wate	r 1		
<u> </u>	Tempera- true	27.4		рН	6.66	9	E.C	0.312	mS/cm		
Water	TDS	202	mg/L	Salt	0.1	mg/L	Turbidity	12.6	NTU		
Quality	Others	1. Clean (2) 4. Dirty, 5. S		l colored (Yello	owish, Brown	ish, Reddish	, Other ()),	2		
Contamina- tion	1.Oil Contamination(a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt.) 2. Other contamination (Any contamination cannot be perceived Countermeasure for contamination Disease by water										
Other Resident Conscious- ness											

***	EL L'ANYI		¢ F1	4 XX 7	(-11 D-:11:)		OWJ9-5		
VV J	ELL INVI	ENIORY (1	ior Expid	oratory w	Tell Drilling)		Survey Date	02 Nov	v. 2009
Registered Wo	ell No.			Zone	Paynesvi	lle	Community	1	Bor Town, Fown OF
Location	Easting	3149	79	Northing	689892	}	Elevation	7	m
Construction	Year	200	9	Provider		Mr.	Prince Klonl	kpiah	
Well Type/ Dimension	Туре	1.)Dug well/ 2 well/ 3. Other		Well Head	1. Nothing, 2. T masonry, 5, Blo			Well head hight (m)	0.82
	Casing		Block(3) C	Concrete colg el casing wit	ate, 4. PVC casi		Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	77	111), 5. 500	Total Depth (m)	6.16	,	Water Level (m)	1.16	o others
Water Had	` ′	water Was	hing water,		cooking		Level (III))	2,3
Water Use/ Yield	No. of User	50		Volume		allon / day	Total	250	Gallon / day
Dry-up (1) No dry-uj	o, 2. Dry-up in own in dry sea		(1 week), 3. Some 5. Water level go	/ person times dry es down	-up by draw	ving, 4. Wate	•
Condition	Tempera- true	28.1	,	pH	6.94		E.C	0.216	mS/cm
Water	TDS	140	mg/L	Salt	0.0	mg/L	Turbidity	16.2	NTU
Quality	Others	1. Clean, 2. C Dirty, 5. Salty		olored (Yello	owish, Brownish,	, Reddish	, Other ()), 4.	3
Contamina- tion		ntamination ca asure for on			Other contamina	ation (blo	owing dust, l	eaves	
Other	-	nes including fi	ine soil after	heavy rain.					
Resident Conscious- ness				·				Dit Park	

11/1			(C E 1	4 11	/ II D *II!)	OWJ9-6			
W)	LLL INVI	ENIORY ((Ior Explo	oratory w	ell Drilling)	Survey Date	02 No	v. 2009	
Registered We	ell No.			Zone	Paynesville	Community	7	Bor Town, Fown OF	
Location	Easting	3149	957	Northing	689946	Elevation	7	m	
Construction	Year	200		Provider		hai Lasana (
	Туре	1.)Dug well/ 2 well/ 3. Othe	rs	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block 6, Co		hight (m)	0.47	
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	gate, 4. PVC casing with th Screen (m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	77		Total Depth (m)	4.70	Water Level (m)	0.75		
Water Use/	1. Drinking	water 3. Was	shing water	_	cooking)	2,3	
Yield	No. of User	r 20		Volume	Volume 15 Gallon / day / person			Gallon / day	
Dry-up (Condition		p, 2. Dry-up in n dry season (n (), 5. Water), 3. Sometimes dry-up b level goes down by draw	y drawing, 4	. Water level	1	
Condition	Tempera- true	28.3		рН	6.87	E.C	0.404	mS/cm	
Water	TDS	262	mg/L	Salt	0.1 ppt	Turbidity	0.0	NTU	
Quality	Others	1. Clean, 2. C 4. Dirty, 5. S		olored (Yello	owish, Brownish, Reddis	h, Other ()),	3	
Contamina- tion	disappears l	oy drawing. d on cannot be asure for on	l. An oil sme		n oil film is confirmed at Other contamination (carry mornin	Any		
Other Resident Conscious- ness	Disease by V	vatei							
Remarks									

***				4 11	(II D (III)		OWJ9-7	
W	ELL INVI	ENTORY (for I	Explo	oratory W	ell Drilling)	Survey Date	02 No	v. 2009
Registered W	ell No.			Zone	Paynesville	Community		Bor Town, Town OF
Location	Easting	314950		Northing	689813	Elevation	7	m
Construction	Year	2005		Provider	Mr.	Mr. Myer J. Johnson		
	Туре	1.)Dug well/ 2. Dril well/ 3. Others	lled	Well Head	1. Nothing, 2. Tire, 3. Dr masonry (5) Block, 6.Com		Well head hight (m)	0.61
Well Type/ Dimension	Casing			Concrete colg el casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, .	
	Diameter (cm)	90		Total Depth (m)	4.16	Water Level (m)	0.82	
Water Use/	1. Drinking	water. Washing	water,	3. Others ()		2,3
Yield	No. of User	50		Volume	15 Gallon / day / person	Total	750	Gallon / day
Dry-up Condition	· .	p, 2. Dry-up in dry n dry season (, 3. Sometimes dry-up by el goes down by drawing	drawing, 4.	Water level	1
	Tempera- true	28.2	°C	pН	6.84	E.C	0.622	mS/cm
Water	TDS	398	mg/L	Salt	0.1 ppt	Turbidity	50.1	NTU
Quality	Others	1. Clean, 2. Cloudy 4. Dirty, 5. Salty	y (3) C	olored (Yello	owish,Brownish, Reddish	, Other ()),	3
Contamina- tion	1.Oil Contamination(a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt. 2. Other contamination (muddy condition) 3. Any contamination cannot be perceived Countermeasure for contamination Boiling for bathing use							
	Disease by v	vater						
Other Resident Conscious- ness								





Remarks	

***			г.	,	7 II D ****	`		OWJ9-8		
W	ELL INVI	ENTORY (f	or Expl	oratory W	ell Drilling)	Survey Date	02 Nov	v. 2009	
Registered W	ell No.			Zone	Paynes	sville	Community	Rihab/Bor Kendeh	Bor Town Fown OF	
Location	Easting	31494	1	Northing	6897	72	Elevation	8		
Construction	Year	2007		Provider		Ms	Paulue Shar	rbeh		
	Туре	1.)Dug well/ 2. well/ 3. Others	;	Well Head	1. Nothing, 2. Tire, 3. Drum, 4. Stone masonry, 5, Block 6 Concrete		hight (m)	0.		
Well Type/ Dimension	Casing	1. Nothing, 2. Screen (Concrete colg eel casing wi	gate, 4. PVC ca th Screen (sing with m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	75		Total Depth (m)	4.15		Water Level (m)	1.18		
Water Use/	1. Drinking water Washing water Others (2,3	
Yield	No. of User	50		Volume	15	Gallon / day / person	Total	750	Gallon / d	
Dry-up Condition		p, 2. Dry-up in n dry season (), 3. Sometimes el goes down b		drawing, 4.	Water level	4	
	Tempera- true	28.0		рН	7.13	, <u>.</u>	E.C	0.585	mS/c	
	TDS	375	mg/L	Salt	0.1	mg/L	Turbidity	0.0	NT	
Quality	Others	1. Clean, 2. Cl 4. Dirty, 5. Sal		olored (Yell	owish, Brownis	sh, Reddish	, Other ()),	3	
Contamina- tion	early morni disappears l	on	lrawing. c An oil sme	Although a	n oil film is co	nfirmed at	early mornii	ng, it	2 s	
Other Resident Conscious- ness										

***						OWJ9-9		
W]	ELL INVI	ENTORY (for E	xploratory V	Vell Drilling)	Survey Date	02 Nov	v. 2009	
Registered W	ell No.		Zone	Paynesville	Community		Bor Town, Town OF	
Location	Easting	315143	Northing	689923	Elevation	8	m	
Construction	Year	2009	Provider	Mı	r. Robert Vai	mvo		
	Туре	1.)Dug well/ 2. Drillowell/ 3. Others	Well Head	masonry, 5, Block, 6 Co		hight (m)	0.95	
Well Type/ Dimension	Casing		(3) Concrete col 5. Steel casing wi	gate, 4. PVC casing with ith Screen (m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	75	Total Depth (m)	3.63	Water Level (m)	1.19		
Water Use/	1.Drinking	water 2 Washing w	vater, 3. Others (cooking)	1,2	
Yield	No. of User	100	Volume	15 Gallon / day / person	Total	1500	Gallon / day	
Dry-up Condition		p, 2. Dry-up in dry so own in dry season (2), 3. Sometimes dry-up), 5. Water level go			4	
	Tempera- true	28.0	°C pH	6.85	E.C	0.167	mS/cm	
Water	TDS	109 ı	mg/L Salt	0.0 mg/L	Turbidity	0.0	NTU	
Quality	Others (1. Clean, 2. Cloudy 4 Dirty, 5. Salty	3) Colored (Yel	lowish, Brownish, Reddisl	n, Other ()),	3	
Contamina-	early morni disappears	ng, it eases by drawi	ng. c. Although : I smell is felt. 2.	ll water. b. Although an o an oil film is confirmed at Other contamination (b	early morning	ng, it	2	
tion	Countermes contaminati	asure for Chlorin	nation once in fo	rmer times				
	Disease by v	vater						
Other Resident Conscious- ness		1						





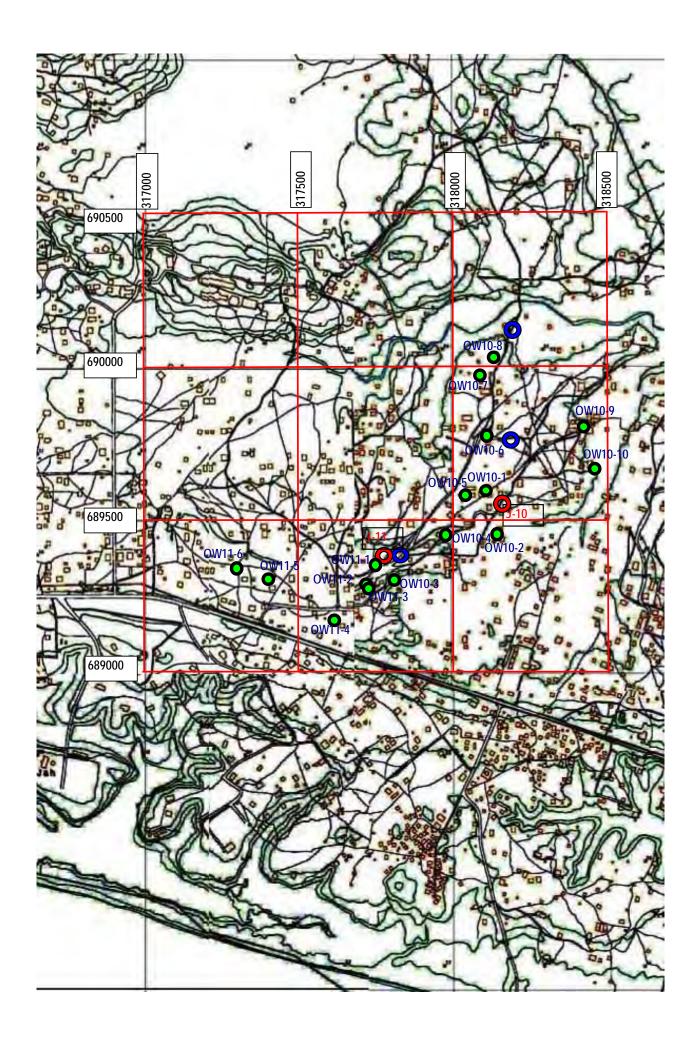
****	DTT TRIVI	NTODY	(for E1		'all Dadilla -\			OWJ9-10	
WI	ELL INVI	ENTORY	(for Explo	oratory vv	ell Drilling)		Survey Date	02 Nov	7. 2009
Registered We	ell No.			Zone	Paynesville	e	Community	Rihab/Bor Kendeh	
Location	Easting	315	147	Northing	689873		Elevation	8 m	
Construction	Year	20	05	Provider		Mother Mary Ahmed			
	Type	1.)Dug well/ well/ 3. Otho	ers	Well Head	1. Nothing, 2. Tire, 3. Drum, 4. Stone masonry, 5, Block 6 Concrete			hight (m)	0.51
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing h Screen (m	-	Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	84		Total Depth (m)	3.76 Water Level (m)			0.62	
Water Use/	1. Drinking	water, 2. Wa)						
Yield	No. of User	no	use	Volume		on / day ' person	Total		Gallon / day
Dry-up (Condition	1)No dry-up goes down i				, 3. Sometimes dry			Water level	1
	Tempera- true	27.7	•	pН	6.91		E.C	0.270	mS/cm
Water	TDS	175	mg/L	Salt	0.1	mg/L	Turbidity	6.4	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S	•	olored (Vello	wish, Brownish, F	Reddish	, Other ()),	3
Contamina- tion	early morni disappears l	ng, it eases b by drawing. on tamination on asure for on	y drawing. c d. An oil sme	. Although a ell is felt. 2. (l water. b. Althoug n oil film is confiri Other contaminati	med at	early mornii	ng, it	2
Other Resident Conscious- ness	Water has fo	am							
	No use								
Remarks	TNO USE								

VV	TOT T TAIX/I		(6 El	4 XX 7	-11 D-2112	-)		OWJ9-11	
	ELL INVI	ENIUKY	(IOr Expl	oratory vv	en Drillin	g)	Survey Date	02 No	v. 2009
Registered W	ell No.			Zone	Payno	esville	Community	1	Bor Town, Town OF
Location	Easting	315	187	Northing	689	894	Elevation	8	
Construction	Year	20	09	Provider		Mr. l	Lawrence Ra	ındall	
	Туре	1.)Dug well/ well/ 3. Otho	ers	Well Head	1. Nothing, 2 masonry, 5,	Block 6Cor		hight (m)	0.58
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC	casing with m)	Equipment	1. Hand pur Draw well, 3	
Dimension	Diameter (cm)	85	m), 3. 3tt	Total Depth (m)	6.04	111)	Water Level (m)	0.95	5. Others
Water Use/		1. Drinking water Washing water Others (2,3
Yield	No. of User	50	00	Volume	15	Gallon / day / person	Total	7500	Gallon / day
Dry-up	1) No dry-uj				, 3. Sometime evel goes dow			Water level	1
Condition	Tempera- true	28.7	·	pH	6.84	n by drawn	E.C	1.000	mS/cm
Water	TDS	0.641	mg/L	Salt	0.3	ppt	Turbidity	13.9	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S		olored (Ve)lo	owish, Brown	ish, Reddish	, Other ()),	3
Contamina- tion	disappears	by drawing. on hination cann hinasure for high drawing	d. An oil smo	ell is felt.) 2. (n oil film is c Other contan		early mornii	лд, н Д.	
Other Resident Conscious- ness		· · · · · · · · · · · · · · · · · · ·							

***			(6 E I	4 11	7 II D 1111	`		OWJ9-12		
W	ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling)	Survey Date	02 Nov	v. 2009	
Registered W	ell No.			Zone	Paynes	ville	Community		Bor Town, Fown OF	
Location	Easting	315	376	Northing	6900	16	Elevation	8	m	
Construction		20		Provider			Augustine Sa	aydee		
	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2. masonry, 5, B	lock,6Coi		hight (m)	1.00	
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	gate, 4. PVC ca th Screen (sing with m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	70 3.75						1.41		
Water Use/	(cm) Depth (m) Level (m) 1. Drinking water 3. Others (2,3	
Yield	No. of User	50	00	Volume		Gallon / day / person			Gallon / day	
Dry-up Condition		p, 2. Dry-up i n dry season		n ()), 5. Water l	, 3. Sometimes evel goes down	dry-up by by drawir	drawing, 4.	Water level	4	
	Tempera- true	29.4		pН	6.85	•	E.C	0.309	mS/cm	
Water	TDS	200	mg/L	Salt	0.1	mg/L	Turbidity	4.2	NTU	
Quality	Others	1) Clean, 2. (4. Dirty, 5. S		olored (Yello	owish, Brownis	sh, Reddish	, Other ()),	1	
Contamina- tion	early morni disappears	ng, it eases by by drawing. o nination cann asure for on	y drawing. c l. An oil smo ot be percei	Although a	l water. b. Altl n oil film is co Other contami eks	nfirmed at	early mornii		2	
Other Resident Conscious- ness										

**/1		ZNITODN	(f F1	4	-11 D-::11:)			OWJ9-13	
VVI	ELL INVE	ENIUKY	(IOT EXPIC	oratory vv	ell Drilling)		Survey Date	02 No	v. 2009
Registered We	ell No.			Zone	Paynesvi	lle	Community	ri	Bor Town, Town OF
Location	Easting	315	335	Northing	689938		Elevation	9	m
Construction	Year	19	99	Provider					
	Type	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Ti masonry, 5, Blo			Well head hight (m)	0.63
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg el casing wit	ate, 4. PVC casii		Equipment	1. Hand pur Draw well,	
	Diameter (cm)	76		Total Depth (m)	3.53		Water Level (m)	0.73	
Water Use/	` /	water.). Wa	shing water,		cooking)	<u> </u>	2,3
Yield	No. of User	2	0	Volume	15 Ga	illon / day	Total	300	Gallon / day
Dry-up (1.)No dry-up goes down ii				, 3. Sometimes d oes down by dra		drawing, 4.	Water level	1
Condition	Tempera- true	28.1		рН	6.85	twing	E.C	0.360	mS/cm
Water	TDS	234	mg/L	Salt	0.1	mg/L	Turbidity	53.0	NTU
Quality		1. Clean, 2. 4) Dirty, 5. S		olored (Vello	wish, Brownish,	, Reddish	o, Other ()),	3,4
Contamina- tion		ntamination sure for on	cannot be pe	rceived	Other contamina	ition (bio	owing dust, i	eaves/ muddy	y
Other Resident Conscious- ness	Water has me				2	N/N/	N2N# -	Martin	
						.4			
Remarks									

J-10 · J-11 AREA



T T71	DE TAIST	NTODY	(for E1	ana4a	all Davie	~)		OWJ10-1	
VV J	ELL INVI	ENIORY	(Ior Explo	oratory w	en Drillin	g)	Survey Date	03 Nov	v. 2009
Registered Wo	ell No.			Zone	Payno	esville	Community	Rihab/Bor Ghengba	,
Location	Easting	318	115	Northing	689	591	Elevation	5	m
Construction	Year	20	09	Provider			Mr. Zayzay		
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2 masonry, 5,	2. Tire, 3. Dr Block,6.Cor		Well head hight (m)	1.00
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit		casing with m)	Equipment	1. Hand pun Draw well, 3	
Dimension	Diameter	75	m), 5. Su	Total Depth (m)	1.71		Water	1.00	. Others
W-4 VI/	(cm) 1. Drinking	water, 2. Wa	shing water	Level (m)		2,3			
Water Use/ Yield	No. of User		5	Volume		Gallon / day / person	Total		Gallon / day
Dry-up		p, 2. Dry-up i), 3. So	metimes dry	-up by draw	ing, 4. Wate	r,
Condition		own in dry se	eason (), 5.	Water level	goes down b	y drawing	I	•
	Tempera- true	25.8	°C	pН	7.29		E.C	0.199	mS/cm
Water	TDS	129	mg/L	Salt	0.0	ppt	Turbidity	16.3	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S	• .	olored (Yello	owish, Brown	ish, Reddish	, Other ()),	3
Contamina- tion	disappears	by drawing. Gamination cansure for on	d. An oil sme	a. Although a ell is felt. 2. (ceived					2
Other Resident Conscious- ness									
<u> </u>									

***			(C E 1	4 11			OWJ10-2		
W	ELL INVI	ENTORY (for Expid	oratory w	(ell Drilling)	Survey Date	03 Nov	v. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community	Rihab/Bor Ghengba	Bor Town, ah Town	
Location	Easting	318	148	Northing	689446	Elevation	5	m	
Construction	Year	200	08	Provider		Mr. Miller			
	Туре	1.Dug well/ well/ 3. Othe	rs	Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block 6 Cor		hight (m)	0.30	
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (. Block 3 (m), 5. Ste	Equipment	1. Hand pun Draw well, 3				
	Diameter (cm)	78		Water Level (m)	0.30				
Water Use/	1. Drinking	water Wa	shing water	3. Others (cooking, bathing)		2,3	
Yield	No. of User	2:	5	Volume	8 Gallon / day / person	Total	200	Gallon / day	
Dry-up (Condition		o, 2. Dry-up i goes down in	•), 3. Sometimes of		-	1	
Condition	Tempera- true	29.1		pН	7.10	E.C	0.118	mS/cm	
Water	TDS	76	mg/L	Salt	0.0 ppt	Turbidity	25.0	NTU	
Quality	Others	1. Clean(2) (4. Dirty, 5. S		olored (Yello	owish, Brownish, Reddish	, Other ()),	2,3	
Contamina- tion	early morni disappears l 3.Any conta Countermea	1.Oil Contamination(a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt. 2. Other contamination (rusty, smell,) 3.Any contamination cannot be perceived Countermeasure for Chlorination 6 times/year							
	Disease by v								
Other Resident Conscious- ness	Little itchy o	n skin after ba	athing						





Remarks		

***	CT T TAIL 7		(C E 1	4 11	(II D • III•)		OWJ10-3	
W	ELL INVI	ENTORY	(for Explo	oratory W	(ell Drilling)	Survey Date	03 Nov	v. 2009
Registered Wo	ell No.			Zone	Paynesville	Community		Bor Town, ah Town
Location	Easting	317	828	Northing	689301	Elevation	6	m
Construction		20		Provider		rs. Hanna Ka		
	Туре	1.)Dug well/ well/ 3. Othe	rs	Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block 6 Con		hight (m)	0.70
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	77		Water Level (m)	1.20			
Water Use/	1. Drinking	water,). Wa	shing water	3. Others (bathing)		2,3
Yield	No. of User	50	0	Volume	18 Gallon / day / person	_		Gallon / day
Dry-up		o, 2. Dry-up i	•		3. Sometimes dry-up by d		ater level	4
Condition	U	n dry season	(3 months), 5. \	Water level goes down by	drawing		
	Tempera- true	27.1	°C	pН	6.68	E.C	0.201	mS/cm
Water	TDS	130	mg/L	Salt	0.0 ppt	Turbidity	17.1	NTU
Quality	Others	1. Clean (2) (4. Dirty, 5. S	• /	olored (Yello	owish, Brownish, Reddish	, Other ()),	2
Contamina- tion	early morni disappears l	ng, it eases by by drawing. con cannot be asure for	y drawing. c l. An oil sme perceived	. Although a	I water. b. Although an oi n oil film is confirmed at Other contamination (blo ce well construction	early mornii	ng, it	2 ay
	Disease by v	vater						
Other Resident Conscious- ness	Smell, mudd	у						





***			(C E 1	4 11	/ II D • II •)		OWJ10-4	
W	ELL INVI	ENTORY	(for Explo	oratory W	ell Drilling)	Survey Date	03 Nov	v. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	Rihab/Bor Ghengb	Bor Town, ah Town
Location	Easting	3179	985	Northing	689445	Elevation	6	m
Construction	Year	200	08	Provider	Mr	. Morris Bov	veh	
	Туре	1.)Dug well/ well/ 3. Othe	rs	Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block, 9. Con	ncrete	hight (m)	0.65
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg el casing wit	rate, 4. PVC casing with the Screen (m)	Equipment	1.)Hand pur Draw well, 3	
	Diameter (cm)	77		Total Depth (m)	4.67	Water Level (m)	0.65	
Water Use/	1. Drinking	water 2 Wa	shing water,	3. Others ()		2
Yield	No. of User	10	0	Volume	8 Gallon / day / person			Gallon / day
Dry-up		o, 2. Dry-up i	•		y-up by draw	ing, 4. Wate	r. 1	
Condition	0	own in dry se	ason (), 5.	Water level goes down b	y drawing		
	Tempera- true	27.2	°C	pН	7.11	E.C	0.266	mS/cm
Water	TDS	172	mg/L			Turbidity	14.1	NTU
Quality	Others	1. Clean (2) (4. Dirty, 5. S		olored (Yello	owish, Boynish, Reddish	o, Other ()),	2,3
Contamina- tion	early morni disappears l	ng, it eases by by drawing. d ination cann asure for	y drawing. c l. An oil sme ot be perceiv	. Although a ll is felt 2.	l water. b. Although an oi n oil film is confirmed at Other contamination (fo	early mornii		2
	Disease by v	vater						
Other Resident Conscious- ness	Solty someti	mes						





XX 71	ELL INIX/I	ENTEODY (for E-	-lawa4awy XX	(all Duillin a)		OWJ10-5	
VVI	ELL INVI	ENTORY (for Ex	pioratory vv	en Drining)	Survey Date	03 No	v. 2009
Registered Wo	ell No.		Zone	Paynesville	Community	ri .	Bor Town, ah Town
Location	Easting	318047	Northing	689579	Elevation	5	m
Construction		2006	Provider		Mr. Andrew	7	
	Туре	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 9.Co		hight (m)	0.71
Well Type/ Dimension	Casing		3) Concrete colg Steel casing wit	gate, 4. PVC casing with the Screen (m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	75	Total Depth (m)	3.05	Water Level (m)	0.77	
Water Use/		water Washing wat		cooking)	2,3
Yield	No. of User	150	Volume	15 Gallon / day	LIOTAL	2250	Gallon / day
Dry-up (Condition		o, 2. Dry-up in dry sea own in dry season (), 3. Sometimes dr	y-up by draw	ving, 4. Wate	r 1
Condition	Tempera- true	21.6	°C pH	6.78	E.C	0.427	mS/cm
Water	TDS	278 mg	g/L Salt	0.1 mg/L	Turbidity	10.6	NTU
Quality	Others	1. Clean(2) Cloudy(3) Dirty, 5. Salty	. Colored (Yello	Dwish, Brownish, Reddisl	n, Other ()), 4.	2,3
Contamina- tion	early morni disappears l	ng, it eases by drawing by drawing. d. An oil s ination cannot be pero sure for on	g. c. Although a smell is felt. 2. (l water. b. Although an o n oil film is confirmed at Other contamination (co	early morning	ng, it	2
Other Resident Conscious- ness							
Remarks							

**/			e E 1	4 11	/ II D *II! \		OWJ10-6		
W	ELL INVI	ENTORY (for Explo	oratory W	ell Drilling)	Survey Date	03 Nov	v. 2009	
Registered Wo	ell No.			Zone	Paynesville	Community	Rihab/Bor Ghengb	Bor Town, ah Town	
Location	Easting	3181	14	Northing	689766	Elevation	4	m	
Construction	Year	200)6	Provider	M	r. Abu Kama	ara		
	Туре	1.)Dug well/ 2 well/ 3. Other	rs	Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block, 6)Con		hight (m)	0.83	
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	tate, 4. PVC casing with the Screen (m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	77		Total Depth (m)	5.90	Water Level (m)	0.93		
Water Use/	1. Drinking	water 3. Was	shing water	3 Others (cooking)	2,3	
Yield	No. of User	25	0	Volume	15 Gallon / day / person	Total		Gallon / day	
Dry-up Condition		o, 2. Dry-up in n dry season (•), 5. Wate), 3. Sometimes dry-up by r level goes down by dray	y drawing, 3. ving	Water level	4	
	Tempera- true	27.8	°C	рН	6.57	E.C	0.113	mS/cm	
Water	TDS	73	mg/L	Salt	0.0 ppt	Turbidity	0.0	NTU	
Quality	Others	1) Clean, 2. C 4. Dirty, 5. Sa	• /	olored (Yello	owish, Brownish, Reddish	, Other ()),	1	
Contamina- tion	early morni disappears l contaminati Countermea contaminati	Oil Contamination(a.Oil always mixes with well water. b. Although an oil mixing is confirmed in arly morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it lisappears by drawing. d. An oil smell is felt.) 2. Other contamination (Ontamination Chlorination often Ontamination							
04	Disease by v	vater							
Other Resident Conscious- ness									





Water is used for drinking before.

***	FT T TN177		(C E 1	, ,	/ 11 D • 111 · \			OWJ10-7	
W	ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling)		Survey Date	03 Nov	v. 2009
Registered W	ell No.			Zone	Paynesv	ille	Community	Rihab/Bor Ghengb	Bor Town, ah Town
Location	Easting	318	094	Northing	689969 Elevation			4	n
Construction	Year	20	09	Provider		Mr.	Teakon Wil	liams	
	Туре	1.)Dug well/ well/ 3. Other	ers	Well Head	1. Nothing, 2. 7	ock, 6.Co		hight (m)	0.3
Well Type/ Dimension	Casing	1.)Nothing, 2 Screen (Concrete colg eel casing wit	gate, 4. PVC cas	ing with m)	Equipment	1. Hand pur Draw well, 3	
Dimension	Diameter (cm)	130	111), 3. 50	Total Depth (m)	3.28	III)	Water Level (m)	1.42	. others
Water Use/		nking water 2 Washing water, 3. Others (1,2
Yield	No. of User	25	50	Volume	15 G	allon / day / person	Total	3750	Gallon / da
Dry-up		p, 2. Dry-up i	-		, 3. Sometimes		drawing, 4.	Water level	1
Condition		n dry season	(),	5. Water lev	el goes down by	drawing		1	
	Tempera- true	27.6	°C	рН	5.70		E.C	0.164	mS/c
Water Quality	TDS	107	mg/L	Salt	0.0	ppt	Turbidity	0.0	NT
	Others	1) Clean, 2. (4. Dirty, 5. S		Colored (Yello	owish, Brownisł	ı, Reddish	, Other ()),	1
Contamina- tion	early morni disappears	ng, it eases b by drawing. o nination cann asure for on	y drawing. o d. An oil sm ot be percei	c. Although a ell is felt.) 2. (l water. b. Altho n oil film is con Other contamin ear	firmed at	_		3
Other Resident Conscious- ness									
*									

***			(C E :	4 75	(II D	`		OWJ10-8	
W	ELL INVI	ENTORY	(for Explo	oratory W	ell Drilling)	Survey Date	03 Nov	v. 2009
Registered Wo	ell No.			Zone	Paynes	ville	Community	1	Bor Town, ah Town
Location	Easting	318	144	Northing	690018 Elevation			4	m
Construction	Year		05	Provider			Ms. Yenay		
	Туре	1.)Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2. masonry, 5, B	lock J.Co		hight (m)	0.6
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC ca h Screen (sing with m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	75	,,,	Total Depth (m)	5.10	,	Water Level (m)	1.35	
Water Use/	1) Drinking	water, 2. Wa	shing water	, 3. Others ()		1
Yield	No. of User		00	Volume	10	Gallon / day / person	1 otai		Gallon / da
Dry-up (Condition		p, 2. Dry-up i n dry season			, 3. Sometimes el goes down by		drawing, 4.	Water level	1
Condition	Tempera- true	26.3		pH	7.15	yurawing	E.C	0.217	mS/cn
	TDS	141	mg/L	Salt	0.0	mg/L	Turbidity	0.0	NTU
	Others	1) Clean, 2. 4. Dirty, 5. S	•	olored (Yello	owish, Brownis	sh, Reddish	, Other ()),	1
Contamina-	early morni disappears	ng, it eases b	y drawing. c d. An oil sme	e. Although a ell is felt.) 2. (l water. b. Alth n oil film is con Other contami	nfirmed at			3
tion	Countermes contaminati	asure for		n 12 times/ye	ear				
	Disease by v	vater							
Other Resident Conscious- ness									

Water is used by entire community as drinking water.

***				**7	11 D ''''	`		OWJ10-9	
W	ELL INVI	ENTORY (for 1	Explorato	ry We	ell Drilling	g)	Survey Date	03 No	v. 2009
Registered W	ell No.		Zone		Paynesville		Community	Rihab/Bor Ghengb	Bor Town, ah Town
Location	Easting	318425	North	ning	689794 Elevation			4	m
Construction		2007	Provi	der		Mı	:. Eleanor Gl	bah	
	Туре	1.)Dug well/ 2. Dri well/ 3. Others	lled Well		l. Nothing, 2 nasonry, 5, l		um, 4. Stone ncrete	Well head hight (m)	0.4
Well Type/ Dimension	Casing	1. Nothing, 2. Bloc Screen (m).	k 3 Concre 5. Steel casi			asing with m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	80	Total Depti		4.30	•	Water Level (m)	0.55	
Water Use/		water Washing			ooking, bath	ning			2,3
Yield	No. of User	50	Volu	me	15	Gallon / day / person	Total	750	Gallon / da
Dry-up (p, 2. Dry-up in dry own in dry season (season (), 5, 1), 3. Someti Water level	mes dry-up	by drawing, ov drawing	4. Water	1
	Tempera- true	28.3	°C pH		7.23	5	E.C	0.431	mS/cn
	TDS	280	mg/L Salt		0.1	mg/L	Turbidity	13.9	NTU
	Others	1. Clean, 2. Cloudy 4. Dirty, 5. Salty	(3. Colored	l (Yellow	vish, Browni	ish, Reddish	, Other ()),	3
Contamina- tion	early morni disappears l	on	ving. c. Altho	ough an	oil film is co	onfirmed at	early mornii	ng, it	2
Other Resident Conscious- ness									





\\$ 71	DII INNYI	NTODY	(for E1	anata 117	(all Duillin a)		OWJ10-10	
VVI	ELL INVI	ENTORY	(tor Expid	oratory vv	(ell Drilling)	Survey Date	03 No	v. 2009
Registered We	ell No.			Zone	Paynesville	Community	1	Bor Town, ah Town
Location	Easting	318	456	Northing	689661	Elevation	m	
Construction	Year	20	07	Provider		Mr. Sheikh		
XX/ 11/15 /	Туре	1.)Dug well/ well/ 3. Other	ers	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block 6,Co		hight (m)	0.96
Well Type/ Dimension	Casing	Screen (Concrete colg eel casing wit	rate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, .	
	Diameter (cm)	75		Total Depth (m)	3.58	Water Level (m)	1.23	
Water Use/		water 2. Wa	shing water		cooking, bathing)		2,3
Yield	No. of User	25	50	Volume	15 Gallon / day / person	Total	3750	Gallon / day
Dry-up Condition		o, 2. Dry-up i n dry season			, 3. Sometimes dry-up by evel goes down by drawin	drawing, 4.	Water level	4
	Tempera- true	27.5	°C	pН	7.04	E.C	0.207	mS/cm
Water	TDS	135	mg/L	Salt	0.0 ppt	Turbidity	1.6	NTU
Quality	Others	1. Clean, 2. 4. Dirty, 5. S	•	olored (Vella	owish, Brownish, Reddisl	n, Other ()),	3
Contamina- tion	early morni	ng, it eases b by drawing. o amination ca asure for on	y drawing. c l. An oil sme	Although a cell is felt. 2.	l water. b. Although an o n oil film is confirmed at Other contamination (le:	early morning		2
Other Resident Conscious- ness	Water has fo	am						
♦ •	No use							*
Remarks								

W	FII INVI	FNTORV	(for Evnl	oratory W	Vell Drilling	ı)		OW11-1	
***		ENTORI	(IOI Expi	oratory v	CH DI IIII	, <i>)</i>	Survey Date	27 Feb	. 2010
Registered W	ell No.			Zone			Community	Rihab/Bor Ghengba	
Location	Easting	317745		Northing	689351		Elevation	6	m
Construction	Year	2007		Provider	Mr. Tiezee G	artor			
	Type (1. Dug well/		Well Head	1. Nothing, 2.			Well head	0.0
Well Type/		well/ 3. Oth		Concrete col:	gate, 4. PVC ca			hight (m) 1. Hand pur	np well 2.
Dimension	Casing	Screen (el casing wi		m)	Equipment	Draw well, 3	3. Others
	Diameter (cm)	70		Total Depth (m)	1.06		Water Level (m)	0.92	
Water Use/	1. Drinking	water, 2. Wa	shing water)	
Yield	No. of User	1	5	Volume	5	Gallon / day / person	Total	75	Gallon / d
Dry-up Condition		Dry-up iown in dry se), 3. Some . Water level g	•	ip by drawing v drawing	, 4. Water	
	Tempera- true	31.25		рН	7.14		E.C	0.539	mS/i
Water	TDS	345	mg/L	Salt	0.1	ppt	Turbidity	77	NT
Quality	Others	1. Clean 2. Dirty, 5. Sal (Dust and le	ty,	olored (Ye)l	owish, Browni	sh, Reddish	, Other ()), 4	
Contamina- tion	Countermea contaminati		Chlorinatio		th				
	Disease by v	water							
Other Resident Conscious- ness		- 4			AL.			- 27	3
Remarks	1								

XX 71	ELL INIX/I	ENTODY	(for Eval	amatamy W	Iall Duilling)		OW11-2	
VV I	CLL III VI	ENIUKI	(for Expi	oratory w	Vell Drilling)	Survey Date	27 Fel	. 2010
Registered Wo	ell No.			Zone		Community		bor Town, ah Town
Location	Easting	317721		Northing	689282	Elevation	6	m
Construction	Year	2007		Provider	Mr. Sundaway Nuka			
	Туре	1.Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. D masonry, 5, Block, 6Co		Well head hight (m)	0.2
Well Type/ Dimension	Casing	1. Nothing, Screen (Concrete colg	gate, 4. PVC casing with	Equipment	1. Hand pur Draw well,	
	Diameter (cm)	80		Total Depth (m)	3.22	Water Level		<u> </u>
Water Use/	` '	water 2. Wa	ashing water	• • • • • •		(111))	2
Yield	No. of User	3	35	Volume	15 Gallon / da	I I OIAI	525	Gallon / da
Dry-up		Dry-up own in dry so		•), 3. Sometimes dry-	up by drawing	g, 4. Water	, ,
Condition	Tempera-	29.81), 5.	. Water level goes down 1	E.C	2.59	mS/n
	true TDS	1.66				t Turbidity	0.8	NTU
Water Quality	108				owish, Brownish, Reddis)), 4	
Q	Others	Dirty, 5. Sal (Dust and le	ty,	010104 (101	0 11 223, 22 0 11 223, 22 0 0 2	., 00	<i>///</i>	•
Contamina- tion	3. Any conta Countermes contaminati	amination car asure for ion		eived	Other contamination (<u> </u>	
Other Resident Conscious- ness	Disease by v	water						
			9					

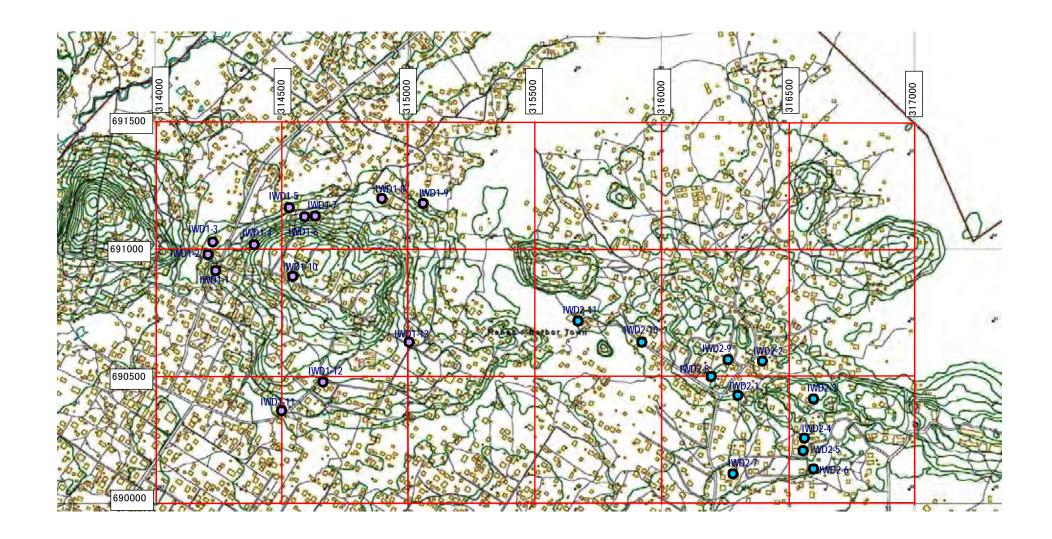
**/	ETT TAIS/I	ENTODY	(for Frank		Zall Duillin a)		OW11-3	
VV I	ELL INVI	ENIURY	(ior Expi	oratory w	ell Drilling)	Survey Date	27 Feb	. 2010
Registered W	ell No.			Zone		Community	ity Rihab/Borbor To Ghengbah Tow	
Location	Easting	317720		Northing	689281	Elevation	6	m
Construction	Year	2009		Provider	Mrs. Kanvee Adams			
	Туре	1. Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6 Co		Well head hight (m)	0.6
Well Type/ Dimension	Casing	1. Nothing, Screen (~ ~ /	Concrete colg eel casing wit	gate, 4. PVC casing with th Screen (m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	90		Total Depth (m)	3.77	Water Level (m)	1.54	
Water Use/	` '	water 2. Wa	ashing water		,)	
Yield	No. of User	1	70	Volume	20 Gallon / day / person	LOTAL	3400	Gallon / da
Dry-up Condition		p, 2. Dry-up own in dry so), 3. Sometimes dry- Water level goes down b		Water	
	Tempera- true	29.38		pН	6.78	E.C	0.316	mS/n
Water	TDS	206	mg/L	Salt	0.1 ppt	Turbidity	8.8	NTU
Quality	Others	1. Clean, 2. Dirty, 5. Sal (Dust and le	lty,	Colored (Yell	bwish, Brownish, Reddisl	h, Other ()), 4	•
Contamina- tion	early morni disappears	ing, it eases b by drawing. amination can asure for ion	oy drawing. o d. An oil smo nnot be perc	c. Although a ell is felt.) 2.	l water. b. Although an o n oil film is confirmed at Other contamination (-
Other Resident Conscious- ness								
Remarks			-1.50		1		16.202	100

ELL INVI	ENTORY	(tor Explo	dratory vy	(en Drilling)			
ell No.			,	ch Dinnig)	Survey Date	27 Feb	. 2010
			Zone		Community	Rihab/Bor Ghengba	bor Town, ah Town
Easting	317618		Northing	689167	Elevation	6	m
Year	2008		Provider	Mrs. Kanvee Adams			
Type (_ ·		Well Head	9			0.9
Casing				gate, 4. PVC casing with	Equipment	1. Hand pur	
Diameter (cm)			Total	3.89	Water Level	1.28	
	water 2. Wa	shing water	<u> </u>	1	(111))	2
No. of User	3	60	Volume	3 Gallon / day	Total	60	Gallon / da
		-), 3. Sometimes dry-u	ıp by drawing	g4.Water	4
Tempera-	28.91	· · · · · · · · · · · · · · · · · · ·		6.46	E.C	0.347	mS/n
TDS	225			0.1 ppt	Turbidity	23.4	NTU
Others	1. Clean 2. Dirty, 5. Sal	Cloudy, 3. C			-		
disappears 3.1 ny conta Countermea	by drawing. omination can asure for on	d. An oil sme	ell is felt.) 2. (eived	Other contamination (early mornin	g, it	
							A
	Year Type Casing Diameter (cm) 1. Drinking No. of User 1. No dry-uplevel goes de Temperatrue TDS Others 1. Oil Contal early morning disappears 3. Any contal Countermes contamination	Year 2008 Type 1.Dug well/ well/ 3. Other 1. Nothing Screen (Diameter (cm) 1. Drinking water 2. Wa No. of User 3 1. No dry-up, 2. Dry-up level goes down in dry set Temperatrue 28.91 TDS 225 1. Clean 2. Dirty, 5. Sal (Dust and let 1. Oil Contamination (a. Cearly morning, it eases be disappears by drawing.	Year 2008 Type 1. Dug well/ 2. Drilled well/ 3. Others L. Nothing, 2. Block, 3. Contamination cannot be percerating to well/ 2. Drilled well/ 3. Others 1. Nothing, 2. Block, 3. Contamination cannot be percerative 28.91 contamination cont	Year 2008 Provider Type 1. Dug well/ 2. Drilled well Head well/ 3. Others Casing 1. Nothing, 2. Block, 3 Concrete colg Screen (m), 5. Steel casing with Diameter (cm) Ro. of User Ro. of	Year 2008 Provider Mrs. Kanvee Adams Type 1. Dug well/ 2. Drilled well/ 3. Others Well Head masonry, 5, Block, 9 Corocasing Screen (m), 5. Steel casing with Screen (m) Diameter (cm) 80 Total Depth (m) 3.89 1. Drinking water 2. Washing water, 3. Others (Mo. of User 30 Volume 3 Gallon / day / person 1. No dry-up, 2. Dry-up in dry season (mo. of User 28.91 °C pH 6.46 TDS 225 mg/L Salt 0.1 ppt 1. Clean 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish Dirty, 5. Salty, (Dust and leave 1. Oil Contamination (a. Oil always mixes with well water. b. Although an oearly morning, it eases by drawing. c. Although an oil film is confirmed at disappears by drawing. d. An oil smell is felt.) 2. Other contamination (3. Any contamination cannot be perceived Countermeasure for Chlorination at twice a monyh	Year 2008 Provider Mrs. Kanvee Adams Type 1. Dug well/ 2. Drilled well/ 3. Others Well Head nasonry, 5, Bloct, Oconcrete Casing 1. Nothing, 2. Bloct, 3 Concrete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Equipment Diameter (cm) 80 Total Depth (m) 3.89 Water Level (cm) 1. Drinking water 2 Washing water, 3. Others (No. of User 30 Volume 3 Gallon / day / person Total 1. No dry-up, 2. Dry-up in dry season (m), 5. Water level goes down by drawing level goes down in dry season (m), 5. Water level goes down by drawing Temperature 28.91 °C pH 6.46 E.C TDS 225 mg/L Salt 0.1 ppt Turbidity 1. Clean 2 Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other (Dirty, 5. Salty, (Dust and leave) 1. Oil Contamination (a. Oil always mixes with well water. b. Although an oil mixing is coearly morning, it eases by drawing. c. Although an oil film is confirmed at early morning disappears by drawing. d. An oil smell is felt.) 2. Other contamination (Countermeasure for Chlorination at twice a monyh Chlorination at twice a monyh	Year 2008 Provider Mrs. Kanvee Adams Type 1. Dug well/ 2. Drilled well/ 3. Others Well Head masonry, 5, Block, O'Concrete hight (m) Casing 1. Nothing, 2. Block 3 Concrete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Water Level (m) Diameter (cm) 80 Total 3.89 Water Level (m) 1. Drinking water 2. Washing water, 3. Others (m) No. of User 30 Volume 3 Gallon / day / person Total 60 1. No dry-up, 2. Dry-up in dry season (m), 5. Water level goes down by drawing 4. Water level goes down in dry season (m), 5. Water level goes down by drawing 4. Water level goes down in dry season (m), 5. Water level goes down by drawing 4. Water level goes down in dry season (m), 5. Water level goes down by drawing 4. Water level goes down in dry season (m), 5. Water level goes down by drawing 4. Water level goes down in dry season (m), 5. Water level goes down by drawing 4. Water level goes down in dry season (m), 5. Water level goes down by drawing 4. Water level goes down by d

** 71	ETT TAIST	ENTODY	(for Frank	V	Zall Duillin a)		OW11-5	
VVI	ELL INVI	ENIORY	(for Explo	oratory w	Vell Drilling)	Survey Date	27 Feb	. 2010
Registered Wo	ell No.			Zone		Community	Rihab/Borbor Tow Ghengbah Town	
Location	Easting	317405		Northing	689306	Elevation	6	m
Construction	Year	28 Jan. 2010	0	Provider	Mr. Manama Gruy			
*** 11.75	Туре	1. Dug well/ well/ 3. Oth	ers	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6Co		Well head hight (m)	0.8
Well Type/ Dimension	Casing	Screen (Concrete colg eel casing wit	gate, 4. PVC casing with th Screen (m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	90		Total Depth (m)	2.05	Water Level (m)	1.66	
Water Use/		water 2. Wa	ashing water)	
Yield	No. of User	10	00	Volume	4 Gallon / day / person	Total	400	Gallon / da
Dry-up Condition		p, 2. Dry-up own in dry se	in dry seasor eason (), 3. Sometimes dry-		g, 4. W ater	ı
	Tempera- true	29.83	°C	pН	6.50	E.C	0.218	mS/r
Water	TDS	142	mg/L	Salt	0 ppt	Turbidity	2.3	NTU
Quality	Others	1) Clean, 2. Dirty, 5. Sal (Dust and le	lty,	olored (Yello	owish, Brownish, Reddisl	n, Other ()), 4	•
Contamina- (tion	early morni disappears	ng, it eases b by drawing. mination can asure for ion	y drawing. c d. An oil sme nnot be perc	c. Although a	ll water. b. Although an o an oil film is confirmed at Other contamination (a week	_		
Other Resident Conscious- ness								

\\$ 71	DEE TAIST	ENTADY	(for F1		(all Duillin a)		OW11-6			
VV I	LLL INVI	ENTURY	(for Explo	oratory vv	ell Drilling)	Survey Date	27 Feb	. 2010		
Registered Wo	ell No.			Zone		Community	Community Clevation C			
Location	Easting	317299		Northing	689339	Elevation	6	m		
Construction	Year	2008		Provider	Mr. James Wolo					
	Туре	1. Dug well/ well/ 3. Oth	ers		1. Nothing, 2. Tire, 3. Di masonry, 5, Block, 6Co		hight (m)	0.73		
Well Type/ Dimension	Casing	1. Nothing, Screen (Concrete colg eel casing wit	rate, 4. PVC casing with	Equipment	_	-		
	Diameter (cm)	90		Total Depth (m)	2.79	Water Level	·			
Water Use/	` '	water 2. Wa	ashing water			<u> ()</u>)	2		
Yield	No. of User	1	00	Volume	4 Gallon / day / person	LOTAL	400	Gallon / day		
Dry-up Condition		Dry-up own in dry so	in dry seasor), 3. Sometimes dry-t Water level goes down b		g, 4. Water	2		
condition	Tempera- true	29.63		рН	6.40	E.C	0.194	mS/m		
Water	TDS	126	mg/L	Salt	0 ppt	Turbidity	5	NTU		
Quality	Others	1)Clean, 2. Dirty, 5. Sal (Dust and le	lty,	olored (Yello	pwish, Brownish, Reddisl	n, Other ()), 4	1		
Contamina- (tion	early morni disappears	ng, it eases b by drawing. mination can asure for ion	y drawing. c	. Although a ell is felt.) 2. (eived	I water. b. Although an o n oil film is confirmed at Other contamination (g, it	3		
Other Resident Conscious- ness										

DIABASE INTRUSION AREA



XX 71	DET INIXI		(f F1	4 33	/-II D:II:)		IWD1-1	
VVI	ELL INVI	ENIUKY	(tor Expid	oratory vv	ell Drilling)	Survey Date	4 Nov	. 2009
Registered We	ell No.			Zone	Paynesville	Community	Rihab/Bor Ril	Bor Town, nab
Location	Easting	3142	2235	Northing	690914	Elevation	10	m
Construction	Year	20	06	Provider	М	son		
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6.Co		Well head hight (m)	0.31
Well Type/ Dimension	Casing	1.)Nothing, 2 Screen (Concrete colg	gate, 4. PVC casing with	Equipment	1. Hand pur Draw well, 3	
İ	Diameter (cm)	90		Total Depth (m)	8.27	Water Level (m)	5.58	
Water Use/		water.). Wa	shing water		l)		2,3
Yield	No. of User	50)0	Volume	15 Gallon / day	Total	7500	Gallon / day
Dry-up Condition		Dry-up ion in dry se), 3. Sometimes dry Water level goes down b	y-up by draw	ing, 4. Water	2
Condition	Tempera- true	26.4	·	рН	6.55	E.C	0.031	mS/cm
Water	TDS	20	mg/L	Salt	0.0 ppt	Turbidity	(19.0)	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S		olored (Yello	Dwish, Brownish, Reddisl	n, Other ()),	1
Contamina- tion	disappears	by drawing. omination car asure for on	l. An oil sme mot be perce	ell is felt.) 2. (eived	n oil film is confirmed at Other contamination (ek (every Saturday)	early morni)	
Other Resident Conscious- ness								
Remarks	Highly weath	hered Diabase	e Portion					

***			/C E I	4 11	/ II D *II!)		IWD1-2	
VV I	ELL INVI	ENIUKY	(10r Explo	oratory vv	ell Drilling)	Survey Date	4 Nov	. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	7	Bor Town, hab
Location	Easting	314	1205	Northing	690976	Elevation	8	m
Construction	Year	20	005	Provider	Mı	r. David L. Sı	umo	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6.Co		Well head hight (m)	0.55
Well Type/ Dimension	Casing (1) Nothing, Screen (Concrete colg eel casing wit	gate, 4. PVC casing with	Equipment	1. Hand pur Draw well,	
Dimension	Diameter (cm)	80		Total Depth (m)	5.65	Water Level (m)	2.70	
Water Use/	`	water(2.)Wa	ashing water	_)	l	2,3
Yield	No. of User	50	00	Volume	15 Gallon / day	Total	7500	Gallon / day
	1) No dry-uj), 3. Sometimes			1
Condition	Tempera-	26.8	n dry season °C	рH), 5. Water level goes 5.77	E.C	0.040	mS/cm
Water	TDS	25	mg/L	Salt	0.0 ppt	Turbidity	(26.8)	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S		olored (Yello	owish, Brownish, Reddis	h, Other ()),	1
Contamina- tion		mination car asure for	nnot be perce		Other contamination ()	
Other Resident Conscious-	Disease by v	vater						
ness								
Remarks								

יישואם אוקי	ZNITADS?	(Por E	ama4 ***	all Desire			IWD1-3		
ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling)		Survey Date	4 Nov	. 2009	
ell No.			Zone	Paynesvil	lle	Community Rihab/BorBor Town Rihab Elevation S. Jalarry Jallah Lum, 4. Stone Well head hight (m) Equipment Corete hight (m) Equipment Draw well, 3. Others Water Level (m) 1,2 Total 7500 Gallon -up by drawing, 4. Water ring E.C 0.077 ms Turbidity (16.6)			
Easting	314	220	Northing	691033		Elevation	8	m	
Year	19	75	Provider		Mı	r. Jalarry Jal			
Type			Well Head					1.13	
Casing				ate, 4. PVC casii	ng with	Equipment	1. Hand pur		
Diameter (cm)	78	m), 3. 30	Total Depth (m)	8.15	III)	Water Level (m)		o. Others	
1.Drinking	water (2.) Wa	shing water	3 Others (cooking)		1,2	
No. of User	50)0	Volume	15 Ga	llon / day / person	Total	7500	Gallon / day	
), 3. Somet	times dry	y-up by draw ·	ving, 4. Wate	r 1	
Tempera-	26.6	·		5.70	i by drav	ving E.C	0.077	mS/cm	
true			_		nnt			NTU	
	1) Clean, 2.	Cloudy, 3. C				-	` ′		
early morni disappears l Any contam Countermea contaminati	ng, it eases b by drawing. o ination cann asure for on	y drawing. c l. An oil smo ot be percei	c. Although a ell is felt.) 2. (ved	n oil film is confi Other contamina	rmed at			3	
Disease by v	vatei								
								70	
	Easting Year Type Casing Diameter (cm) 1) Drinking No. of User 1) No dry-uplevel goes do Temperatrue TDS Others 1.Oil Containe arly morning disappears in Any contain Countermer contamination	Easting 314 Year 19 Type 1.Dug well/ well/ 3. Other Casing Screen (Diameter (cm) 78 1. Drinking water 2. Wa No. of User 50 1. No dry-up, 2. Dry-up ilevel goes down in dry set true 26.6 TDS 50 1. Clean, 2. of the case be disappears by drawing. Cany contamination cannot can	Easting 314220 Year 1975 Type 1 Dug well/ 2. Drilled well/ 3. Others 1. Nothing, 2. Block 3 Casing 1. Nothing, 2. Block 3 Casing 2. Blo	Easting 314220 Northing Year 1975 Provider Type (1.)Dug well/ 2. Drilled well/ 3. Others Casing 1. Nothing, 2. Block(3) Concrete colg Screen (m), 5. Steel casing with Diameter (cm) Total Depth (m) 1.) Drinking water (2.) Washing water (3.) Others (4.) No. of User 500 Volume 1.) No dry-up, 2. Dry-up in dry season (4 months level goes down in dry season (9.), 5. Water Temperatrue 26.6 °C pH TDS 50 mg/L Salt (1.) Clean, 2. Cloudy, 3. Colored (Yellow) 4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mixes with well early morning, it eases by drawing. c. Although a disappears by drawing. d. An oil smell is felt.) 2. Of Any contamination cannot be perceived Countermeasure for Contamination 12 times/years (1.)	Easting 314220 Northing 691033 Year 1975 Provider Type (1.)Dug well/ 2. Drilled well/ 3. Others Well Head masonry, 5, Block Screen (m), 5. Steel casing with Screen (Diameter (cm) Popth (m) Some screen (m), 5. Steel casing with Screen (Diameter (cm) Popth (m) Some screen (m), 5. Steel casing with Screen (Diameter (cm) Popth (m) Some screen (Easting 314220 Northing 691033 Year 1975 Provider Mr Type 1. Dug well/ 2. Drilled well/ 3. Others Well Head Screen (m), 5. Steel casing with Screen (m) Diameter (cm) 78 Total Depth (m) 8.15 1. Drinking water 2. Washing water 3. Others (cooking No. of User 500 Volume 15 Gallon / day / person 1. No dry-up, 2. Dry-up in dry season (4 months), 3. Sometimes dry level goes down in dry season (), 5. Water level goes down by dray Temperatrue 26.6 °C pH 5.70 TDS 50 mg/L Salt 0.0 ppt 1. Oil Contamination (a. Oil always mixes with well water. b. Although an oil early morning, it eases by drawing. c. Although an oil film is confirmed at disappears by drawing. d. An oil smell is felt.) 2. Other contamination (Any contamination cannot be perceived Countermeasure for Chlorination 12 times/year	Easting 314220 Northing 691033 Elevation Year 1975 Provider Mr. Jalarry Ja Type (1)Dug well/ 2. Drilled well/ 3. Others Casing I. Nothing, 2. Block 3 Concrete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Diameter (cm) 78 Total Depth (m) Diameter (cm) 78 Others (cooking) No. of User 500 Volume 15 Gallon / day / person Total Depth (m) Diameter (person) 1. Sometimes dry-up by draw level goes down in dry season (4 months 12. Swater level goes down by drawing Total Depth (m) Casing 1. Nothing, 2. Block 3 Concrete colgate, 4. PVC casing with Screen (m) Diameter (m) 8.15 Water (m) Diameter (m) 8.15 Water (m) Diameter (m) 8.15 Callon / day / person Total Depth (m) Diameter (m) 9. Sometimes dry-up by draw level goes down in dry season (4 months 12. Swater level goes down by drawing Temperatrue 126.6 °C pH 15.70 E.C TDS 50 mg/L Salt 0.0 ppt Turbidity (1) Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Other (4. Dirty, 5. Salty 1. Oil Contamination (a. Oil always mixes with well water. b. Although an oil mixing is cearly morning, it eases by drawing. c. Although an oil film is confirmed at early morning disappears by drawing. d. An oil smell is felt.) 2. Other contamination (Any contamination cannot be perceived Countermeasure for Chlorination 12 times/year	ELL INVENTORY (for Exploratory Well Drilling) Zone Paynesville Community Rihab/Bor Ril Easting 314220 Northing 691033 Elevation 8 Year 1975 Provider Mr. Jalarry Jallah Type Dugwell/ 2. Drilled well/ 3. Others Well Head well/ 3. Others 1. Nothing, 2. Block Cocnete colgate, 4. PVC casing with Screen (m), 5. Steel casing with Screen (m) Diameter (m) Source Colgate, 4. PVC casing with Screen (m) Diameter (m) Source Colg	

VV	DET INIXI			4 33	-11 D-2112)			IWD1-4	
	ELL INVI	ENIORY (I	or Expid	oratory vv	ell Drilling)		Survey Date	4 Nov	. 2009
Registered We	ell No.			Zone	Paynesville		Community	Rihab/Bor Ril	-
Location	Easting	31438	33	Northing	691011		Elevation	16	m
Construction	Year	2002	2	Provider		Mr	. Brewer No	rris	
	Туре	1.)Dug well/ 2. well/ 3. Others		Well Head	1. Nothing, 2. Tire masonry, 5, Block			Well head hight (m)	0.50
Well Type/ Dimension	Casing	1) Nothing, 2. Screen (Concrete colg	ate, 4. PVC casing h Screen (m		Equipment	1. Hand pun Draw well, 3	
Difficusion	Diameter (cm)	100	11), 5. 54	Total Depth (m)	7.85	,	Water Level (m)	5.25	, others
Water Use/	` ′	water 2 Wash	ning water		<u> </u>	l)		1,2
Yield	No. of User	500		Volume		on / day person	Total	7500	Gallon / day
Dry-up (Condition		l p, 2. Dry-up in own in dry seas), 3. Sometin Water level goes d	nes dry	r-up by draw y drawing	ing, 4. Wate	r ₁
	Tempera- true	26.4	°C	pН	5.84		E.C	0.045	mS/cm
Water	TDS	29	mg/L	Salt	0.0	ppt	Turbidity	(53.2)	NTU
Quality	Others	1)Clean, 2. Cl 4. Dirty, 5. Sal	•	olored (Yello	wish, Brownish, R	eddish	, Other ()),	1
Contamina- tion		nination cannot asure for C on		ved	Other contamination	on ((3)	
Other Resident	Disease by V	vater							
Conscious- ness	ery Martine 120	A MARKEN WAS A	WNO.ZA			MWC 15			

% \$71	DII ININI	NTODY	(for E1		(all Duilling)		IWD1-5	
W)	ELL INVI	ENIURY	(Ior Explo	oratory w	(ell Drilling)	Survey Date	4 Nov	. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	ri	Bor Town, nab
Location	Easting	314	1525	Northing	691161	Elevation	8	m
Construction			005	Provider		lphonso Quiv		
	Type	1.)Dug well/ well/ 3. Oth	ers		1. Nothing, 2. Tire, 3. Dimasonry, 5. Block, 6.Co		hight (m)	0.10
Well Type/ Dimension	Casing	1.)Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	120		Total Depth (m)	5.50	Water Level (m)	3.30	
Water Use/	1) Drinking	water 2 Wa	shing water		cooking)	1,2
Yield	No. of User	50	00	Volume	15 Gallon / day / person	LIOTAL	7500	Gallon / day
Dry-up Condition	1.)No dry-up level goes do		•), 3. Sometimes dr 5. Water level goes down		ving, 4. Wate	r, 1
Condition	Tempera-	26.9		pH	5.30	E.C	0.062	mS/cm
Water	TDS	40	mg/L	Salt	0.0 ppt	Turbidity	(34.4)	NTU
Quality	Others	1) Clean, 2. Dirty, 5. Sal		olored (Yello	wish, Brownish, Reddis	h, Other ()), 4.	1
Contamina- tion	disappears l	by drawing. ntamination nsure for on	d. An oil sme cannot be pe	ell is felt.) 2. (n oil film is confirmed at Other contamination (ro		ng, it	2
Other Resident Conscious- ness								
						fi.		
		1 别。	T. all				11/21/2	

**/			ъ.	4 11	(II D (III)		IWD1-6	
VV I	ELL INVI	ENTORY (fo	or Explo	oratory w	eli Drilling)	Survey Date	4 Nov	. 2009
Registered W	ell No.			Zone	Paynesville	Community		Bor Town, hab
Location	Easting	314579	9	Northing	691127	Elevation	13	n
Construction		2008		Provider		Mrs. Ellen		
	Туре	1.)Dug well/ 2. well/ 3. Others		Well Head	1. Nothing, 2. Tire, 3. masonry 5 Block, 6.	Concrete	hight (m)	0.3
Well Type/ Dimension	Casing			Concrete colg eel casing wit	ate, 4. PVC casing with Screen (m)	th Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	110		Total Depth (m)	9.35	Water Level (m)	7.99	
Water Use/	1.Drinking	water (). Wash	ing water	, 3. Others (cooking)	1,2
Yield	No. of User	500		Volume	15 Gallon / e	son		Gallon / da
Dry-up Condition		Dry-up in o), 3. Sometimes d	lry-up by drawi awing	ng, 4. Water	2
	Tempera- true	27.0		pН	5.18	E.C	0.056	mS/c
Water	TDS	36	mg/L	Salt	0.0	opt Turbidity	30.9	NT
Quality	Others	1. Clean, 2. Clo 4. Dirty, 5. Salt		olored (Yello	owish, Brownish, Redd	lish, Other ()),	
Contamina- tion		amination cann			Other contamination (, grass)	
	Disease by v	water						
Other Resident Conscious- ness								
								i de la companya de l
				9				
Remarks								

**************************************	DE E ENIETE		(fF. 1	A- VV	-11 D911 \			IWD1-7	
W	ELL INVI	ENTORY	(for Explo	oratory W	(ell Drilling		Survey Date	4 Nov	. 2009
Registered W	ell No.			Zone	Paynes	ville	Community	1	Bor Town, nab
Location	Easting	314	624	Northing	69112	27	Elevation	13	m
Construction	Year	20	00	Provider		I	Mr. Raymon	d	
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. masonry, 5, B			Well head hight (m)	0.72
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC cas h Screen (sing with m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	80		Total Depth (m)	9.02	,	8.30		
Water Use/	(- /	water 2. Wa	shing water		cooking, bathi	ng	Level (m)		2,3
Yield	No. of User	50	00	Volume	8	Gallon / day / person	Total	4000	Gallon / da
Dry-up Condition		Dry-up ion in dry se), 3. Somer level goes do	etimes dry	up by drawi	ing, 4. Water	2
Condition	Tempera- true	27.2		рН	5.27		E.C	0.050	mS/en
Water	TDS	32	mg/L	Salt	0.0	ppt	Turbidity	1.9	NTU
Quality	Others	1) Clean, 2. (4. Dirty, 5. S		olored (Yello	owish, Brownis	h, Reddish	, Other ()),	1
Contamina- tion	early morni disappears l	ng, it eases by by drawing. con cannot be asure for on	y drawing. c l. An oil sme perceived	. Although a	l water, b. Alth n oil film is cor Other contamin	firmed at			3
Other Resident Conscious- ness									

***		ZNITODS?	(for F 1	ama4a ¥¥7	all D-202	~)		IWD1-8			
W	LLL INVI	LNIORY	(Ior Expl	oratory W	en Drillin	g)	Survey Date	4 Nov	. 2009		
Registered We	ell No.			Zone	Payn	esville	Community	munity Rihab/BorBor TRihab ation 9 mos Lah S. Stone Well head hight (m) pment 1. Hand pump we Draw well, 3. Other 1 (m) 2,3 1 7500 Gall ving, 4 Water level 4 0.040 sidity 36.0			
Location	Easting	314	895	Northing	691	194	Elevation	9	m		
Construction	Year	20	08	Provider		N	Ar. Amos La	h			
	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	masonry,5	Block, 6.Co		hight (m)	0.52		
Well Type/ Dimension	Casing (1) Nothing, 2 Screen (Concrete colg		casing with m)	Equipment				
Difficusion	Diameter (cm)	120	m), 3. 50	Total Depth (m)	7.30	<u> </u>	Water Level (m)	o. Others			
Water Use/		water 2 Wa	shing water	3. Others (cooking, bath	ning	` /)	2,3		
Yield	No. of User	50)0	Volume	15	Gallon / day / person	Total	7500	Gallon / da		
Dry-up Condition		o, 2. Dry-up i n dry season			, 3. Sometim ter level goe	es dry-up by		Water level	4		
Condition	Tempera- true	26.8		pH	5.32	y down by di	E.C	0.040	mS/cm		
Water	TDS	25	mg/L	Salt	0.0	ppt	Turbidity	36.0	NTU		
Quality	Others	1. Clean, 2. 6 4. Dirty, 5. 8		olored (Yello	owish Brown	aish, Reddish	, Other ()),	3		
Contamina- tion	disappears l	oy drawing. on mination can sure for on	d. An oil sm	ell is felt.) 2. ()		
Other Resident Conscious- ness	Bathing with	water makes	itchy on skir	n.							
		Action									
Remarks											

T T TATE !		(for E	¥¥7	all D-200	~)		IWD1-9	
LL INVE	LNIORY	(Ior Explo	oratory W	eli Drillin	g)	Survey Date	4 Nov	. 2009
l No.			Zone	Payno	esville	Community	Rihab/Bor Ril	
Easting	315	060	Northing	691	175	Elevation	6	m
Year	20	006	Provider			Mr. Tweh		
Гуре	well/ 3. Otho	ers		masonry 3,	Block, 6.Cor		hight (m)	0.15
'acına	_				<u> </u>	Equipment		
	`			n Screen (m)	Water		o. Otners
cm)	140 1 3.50						1.70	
. Drinking	wate 🕠. Wa	shing water	, 3. Others (cooking)	2
No. of User	25	50	Volume	15	Gallon / day / person	Total		Gallon / day
), 3. So	metimes dry	-up by draw	ing, 4. Water	2
	own in dry se	eason (), 5.	Water level	goes down by	y drawing	ı	
rue	27.2	°C	pН	4.85		E.C	0.035	mS/cm
ΓDS	23	mg/L	Salt	0.0	ppt	Turbidity	2.8	NTU
			olored (Yello	wish, Brown	iish, Reddish	, Other ()),	2
lisappears b 3. Any con Countermea contaminati	oy drawing. on tamination of sure for on	d. An oil sme cannot be pe	ell is felt. 2. (rceived	Other contan	nination (bl			
nsease by w	vater							
	asting fear type (asing biameter cm) Drinking No of User No dry-up evel goes do empera- rue DS Others Oil Contain arly mornin isappears b 3. Any cor countermea ontaminati	asting 315 fear 20 type 1.Dug well/ well/ 3. Other asing Screen (1.Nothing, Screen (1.Nothing, Screen (1.No dry-un), Dry-up seed goes down in dry se	asting 315060 fear 2006 Type 1. Dug well/ 2. Drilled well/ 3. Others Tasing 1. Nothing, 2. Block, 3. Oscreen (m), 5. Step 140 Drinking wate 2. Washing water 140 Drinking wate 2. Washing water 250 No dry-ug 2. Dry-up in dry season (manual washing water 27.2 mg/L DS 23 mg/L 1. Clean 2. Cloudy, 3. Clean 2. Cloudy, 3. Clean 2. Cloudy, 3. Clean 2. Cloudy, 3. Clean 3. Any contamination cannot be performanced by the season of the s	asting 315060 Northing Tear 2006 Provider Type 1.Dug well/ 2. Drilled well / 3. Others Tasing 1.Nothing, 2. Block, 3. Concrete colg Screen (m), 5. Steel casing with management of the month of the m	asting 315060 Northing 691 Tear 2006 Provider T.)Dug well/ 2. Drilled well Head well/ 3. Others T.)Nothing, 2. Block, 3. Concrete colgate, 4. PVC Screen (m), 5. Steel casing with Screen (m), 5. Steel casing with Screen (m), 5. Steel casing with Screen (m), 5. Others (m) Total Depth (m) 3.50 Depth (m) 3.50 Depth (m) 3.50 Depth (m) 3.50 Depth (m) 3.50 Depth (m) 3.50 Total Depth (m) 3.50 Depth (m) 3.50 Total Depth (m) 3.50 Depth (m) 3.50 Total Depth (m) 3.50 Depth (m) 3.50 Total Depth (m)	asting 315060 Northing 691175 The sear 2006 Provider Such as a sum of the search of the search	asting 315060 Northing 691175 Elevation The sear 2006 Provider Mr. Tweh as a support of the sear 2006 Provider Mr. Tweh and the search as a support of the	asting 315060 Northing 691175 Elevation 6 The sear 2006 Provider Mr. Tweh The sear 2006 Mr. Tw

	DI I INIXI		(C E 1	4 11	(II D 'III')		IWD1-10	
W)	ELL INVI	ENIORY	(Ior Explo	oratory w	(ell Drilling)	Survey Date	4 Nov	. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	Rihab/Bor Ril	Bor Town, nab
Location	Easting	314	541	Northing	690887	Elevation	27	m
Construction	Year	200	08	Provider	N	Ir. Emmet Pa	yne	
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. Tire, 3. D masonry, 5, Block, 6, Co		Well head hight (m)	0.45
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with	Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	85	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Total Depth (m)	7.85	Water Level (m)	5.50	
Water Use/		water 2. Wa	shing water)		2,3
Yield	No. of User	20	00	Volume	15 Gallon / da	I I OIAI	3000	Gallon / day
Dry-up		(). Dry-up i					ing, 4. Water	2
Condition	Tempera-	26.8		pH	goes down by drawing 5.25	E.C	0.073	mS/cm
	TDS	47	mg/L	_	0.0 pp	t Turbidity	17.9	NTU
Water Quality			Cloudy, 3. C		wish, Brownish, Reddis	_)),	
	carry morm		y drowing c	Although a	n ail film is confirmed a	t garly marni	na it	2
Contamina- tion	disappears l	by drawing. d amination can asure for on	l. An oil sme	ell is felt () . (n oil film is confirmed a Other contamination (ta		ng, it	
	disappears l 3. Any conta Countermea contaminati	by drawing. d amination can asure for on	l. An oil sme	ell is felt () . (ng, it	2

XX 71	DET INIXI		(f F1	4 XX	(-11 D-212)		IWD1-11	
W)	ELL INVI	ENIORY	(Ior Explo	oratory w	(ell Drilling)	Survey Date	4 Nov	. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	1	Bor Town, hab
Location	Easting	314	415	Northing	690355	Elevation	8	n
Construction	Year	20	07	Provider	Mrs.	Deddeh B. C	ooper	
	Туре	1. Dug well/ 2. Drilled well/ 3. Others		Well Head	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block 6.Com		Well head hight (m)	0.8
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3	
	Diameter (cm)	77		Total Depth (m)	4.73	Water Level (m)	1.65	
Water Use/	1) Drinking)		1,2				
Yield	No. of User	50	00	Volume	15 Gallon / day	LIOTAL	7500	Gallon / da
Dry-up Condition	1)No dry-uj				, 3. Sometimes dry-up by evel goes down by drawin	drawing, 4.	Water level	1
Condition	Tempera-	27.3		pH	5.55	E.C	0.057	mS/cı
	TDS	36	mg/L	Salt	0.0 ppt	Turbidity	13.7	NT
Water Quality	Others		Cloudy, 3. C		owish, Brownish, Reddish	-)),	1
Contamina- tion	Any contam Countermes contaminati			ved n 24 times/ye	ear			
	Disease by v	vater						
Other Resident Conscious- ness								
Remarks								

**/1			(C E 1	4 11	(II D		IWD1-12	
Wı	ELL INVI	ENTORY	(for Explo	oratory W	(ell Drilling)	Survey Date	4 Nov	. 2009
Registered Wo	ell No.			Zone	Paynesville	Community	7	Bor Town, hab
Location	Easting	314	667	Northing	690473	Elevation	15	m
Construction	Year	20		Provider		Mr. Nyan Eva	ato	
	Type	1.)Dug well/ well/ 3. Otho		Well Head	1. Nothing, 2. Tire, 3. I masonry, 5, Block, 9.C		Well head hight (m)	0.72
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg	ate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well,	
	Diameter (cm)	75	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Total Depth (m)	7.65	Water Level (m)	2.64	
Water Use/	1) Drinking	water 2. Wa	shing water)		1,2
Yield	No. of User	50	00	Volume	15 Gallon / d	Trotal	7500	Gallon / day
Dry-up Condition		Dry-up io Own in dry se		1 (6 momths		-up by drawin	ng, 4. Water	2
Condition	Tempera-	27.6		pH	6.25	E.C	0.096	mS/cm
Water	TDS	62	mg/L	Salt	0.0 pj	ot Turbidity	15.3	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S	• .	olored (Yello	wish, Brownish, Reddi	sh, Other ()),	1
Contamina- tion	disappears l	by drawing. on amination can asure for on	l. An oil sme	ell is felt. 2. (n oil film is confirmed a Other contamination (l ear			
Other Resident Conscious- ness	-							
Remarks								

***		ZNITODS?	(for E1	o wo 4 o XX	all Desire	~)		IWD1-13	
WI	ELL INVI	ENTORY	(tor Explo	oratory vv	ell Drilling	g)	Survey Date	4 Nov	. 2009
Registered We	ell No.			Zone	Payne	esville	Community	ri .	Bor Town, hab
Location	Easting	315	006	Northing	690	627	Elevation	16	m
Construction	Year	20	09	Provider		1	Mr. Sherma	n	
	Type	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2 masonry, 5,	Block,6,Cor		Well head hight (m)	0.20
Well Type/ Dimension	Casing	1. Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC	<u> </u>	Equipment	1. Hand pur Draw well, 3	
Dimension	Diameter (cm)	78	m), 5. Ste	Total Depth (m)	7.58	m)	Water Level (m)	2.85	5. Others
Water Use/		water . Wa	shing watek	_)		2,3
Yield	No. of User	50)0	Volume	15	Gallon / day / person	Total		Gallon / day
Dry-up		o, 2. Dry-up i		n (), 3. S	ometimes dr	y-up by drav	wing 4. Wat	er level goes	4
Condition	down in dry	season (), 5. Water	level goes do	wn by drawi	ng		1	
	Tempera- true	27.3	°C	pН	5.66		E.C	0.048	mS/cm
Water	TDS	31	mg/L		0.0		Turbidty	10.4	NTU
Quality	Others (1) Clean, 2. (4. Dirty, 5. S		olored (Yello	owish, Brown	ish, Reddish	, Other ()),	1
Contamina- tion	disappears l	oy drawing. o ination cann isure for on	d. An oil sme	ell is felt.) 2. (n oil film is c Other contan		early mornii	ng, it	
Other Resident Conscious- ness									
Remarks									

***	FT T TN177		(C E 1	4 11	/ II D • II •		IWD2-1				
W	ELL INVI	ENTORY (for Expl	oratory W	ell Drilling)	Survey Date	6 Nov	. 2009			
Registered W	ell No.			Zone	Paynesville	Community	Rihab/Bor Thinkers	Bor Town, village OF			
Location	Easting	316.	305	Northing	690414	Elevation	9	m			
Construction	Year	200)6	Provider	Mr	. Borbor Gai	pue				
	Туре	1.)Dug well/ well/ 3. Othe		Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6.Co.		Well head hight (m)	0.67			
Well Type/ Dimension	Casing	1)Nothing, 2 Screen (Concrete colg	rate, 4. PVC casing with h Screen (m)	Equipment	1. Hand pur Draw well, 3				
	Diameter (cm)	100		Total Depth (m)	4.79	Water Level (m)	1.45				
Water Use/	1.Drinking	water 2 Wa	shing water	, 3. Others ()		1,2			
Yield	No. of User	50	0	Volume	15 Gallon / day / person	1 otai		Gallon / day			
Dry-up		No dry-up 2 Dry-up in dry season (2-4 hours), 3. Sometimes dry-up by drawing, 4. Water yel goes down in dry season (), 5. Water level goes down by drawing									
Condition	Tempera- true	26.9), 5.	5.80	E.C	0.033	mS/cm			
Water	TDS	21	mg/L	Salt	0.0 ppt	Turbidity	(82.0)	NTU			
Quality	Others	1) Clean, 2. (4. Dirty, 5. S		olored (Yello	owish, Brownish, Reddish	, Other ()),	1			
Contamina-	early morni disappears l 3Any conta Countermea contaminati	ng, it eases by by drawing. d mination can asure for on	drawing. c An oil smo	e. Although a ell is felt.) 2. (eived	l water. b. Although an o n oil film is confirmed at Other contamination (ek (every week)	_		3			
0.0	Disease by v	vater									
Other Resident Conscious- ness											
(= -											





Highly weathered Diabase Portion

237 1	ייצואד דאק	ZNITADS?	(for E	ama4 ***	all D-200	~)		IWD2-2		
Wı	ELL INVI	ENTORY	(for Explo	oratory W	ell Drilling	g)	Survey Date	6 Nov	. 2009	
Registered We	ell No.			Zone	Payne	esville	Community	1	Bor Town, village OF	
Location	Easting	316	390	Northing	690:	554	Elevation	9	m	
Construction	Year	20	05	Provider		M	rs. Sarah Tu	ıah		
	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	masonry (3)	Nothing, 2. Tire, 3. Drum, 4. Stone Well head hight (m)				
Well Type/ Dimension	Casing ([1] Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC c	easing with m)	Equipment	1. Hand pur Draw well, 3	_	
Difficusion	Diameter	130	m), 5. 5tc	Total	4.58)	Water	2.85	o. Others	
((cm) 1) Drinking	water(, 2). Wa	shing water	Depth (m)			Level (m)		1,2	
Water Use/ \(\) Yield	No. of User		00	Volume	15	Gallon / day	<u> </u>	7500	Gallon / day	
Dry-up		(, 2 . Dry-up i	in dry seasor), 3. Som	/ person letimes dry-i		ng, 4. Water		
Condition	level goes do	own in dry se			Water level g				2	
	Tempera- true	26.9	°C	pН	5.42		E.C	0.022	mS/cm	
Water	TDS	14	mg/L	Salt	0.0	ppt	Turbidity	(27.8)	NTU	
Quality	Others	1) Clean, 2. (4. Dirty, 5. S		olored (Yello	owish, Brown	ish, Reddish	, Other ()),	1	
Contamina- (early morni disappears l	ng, it eases by by drawing. o mination car asure for on	y drawing. c l. An oil sme mot be perc	e. Although a ell is felt.) 2. (l water. b. Al n oil film is c Other contan	onfirmed at				
Other Resident Conscious- ness	-									
			7							

***	ELL INIXI		(C E 1	4 11	(II D. 1111)		IWD2-3	
W	ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling)	Survey Date	6 Nov	. 2009
Registered W	ell No.			Zone	Paynesville	Community	r	Bor Town, village OF
Location	Easting	316	604	Northing	690403	Elevation	12	m
Construction	Year	20	07	Provider	N	uo		
	Туре	1.)Dug well/ well/ 3. Othe	ers	Well Head	1. Nothing, 2. Tire, 3. Dimasonry, 5, Block, 6)Co	hight (m)	0.00	
Well Type/ Dimension	Casing (1) Nothing, 2 Screen (oncrete colgate, 4. PVC casing with el casing with Screen (m)		1. Hand pur Draw well, 3	
	Diameter (cm)	105		Total Depth (m)	8.62	Water Level (m)	3.03	
Water Use/	1. Drinking water (3) Others (cooking, bathing)							2,3
Yield	No. of User	25	50	Volume	15 Gallon / day / person	l l		Gallon / day
Dry-up Condition		Dry-up iown in dry se), 3. Sometimes dry r level goes down by dra	up by drawi	ng, 4. Water	2
	Tempera- true	26.1		pH	5.70	E.C	0.027	mS/cm
Water	TDS	17	mg/L	Salt	0.0 ppt	Turbidity	(46.1)	NTU
Quality	Others	1. Clean (2) (4. Dirty, 5. S		Colored (Yello	owish, Brownish, Reddis	h, Other ()),	2
Contamina- tion	early morni disappears	ng, it eases by by drawing. c ination cann asure for on	y drawing. o l. An oil smo ot be percei	c. Although a ell is felt. 2. (l water. b. Although an o n oil film is confirmed at Other contamination (to ear	early morni		2
Other Resident Conscious- ness								

**/1	ETT TNINT	ENITODN (C E)	4 XX 7	(-II D-2112)		IWD2-4	
VVI	ELL INVI	ENTORY (for Explo	oratory vv	en Drining)	Survey Date	6 Nov	. 2009
Registered We	ell No.		Zone	Paynesville	Community	ri .	Bor Town, village OF
Location	Easting	316561	Northing	690245	Elevation	11	m
Construction	Year	2009	Provider	Mrs	s. Rachel Me	nsah	
	Type	1.)Dug well/ 2. Drilled well/ 3. Others	Well Head	1. Nothing, 2. Tire, 3. Dr masonry (5) Block, 6.Com		Well head hight (m)	0.42
Well Type/ Dimension	Casing (1) Nothing, 2. Block, 3. (Concrete colg	ate, 4. PVC casing with	Equipment	1. Hand pur Draw well, 3	
Difficusion	Diameter (cm)	100	Total Depth (m)	4.53	Water Level (m)	3.25	, others
Water Use/	` /	water, 2. Washing water		bathing)		2,3
Yield	No. of User		Volume	15 Gallon / day	Total	7500	Gallon / day
Dry-up (p, 2. Dry-up in dry season pwn in dry season (ı (1 week), 3. Sometimes dry Water level goes down b	 y-up by draw y drawing	ving, 4. Wate	r ₁
İ	Tempera- true	28.1 °C	pН	5.60	E.C	0.064	mS/cm
Water	TDS	42 mg/L	Salt	0.0 ppt	Turbidity	(94.0)	NTU
Quality	Others	1. Clean 2 Cloudy, 3. C 4. Dirty, 5. Salty	olored (Yello	owish, Brownish, Reddish	, Other ()),	2
Contamina- tion		ination cannot be perceivasure for on		Other contamination (fo	amy) 3	•
Other Resident Conscious- ness	Formy	<u>l</u>					
Remarks							

***			/C E 1	4 33		`		IWD2-5		
W	ELL INVI	ENTORY	(for Expl	oratory W	eli Drillin	g)	Survey Date	6 Nov		
Registered W	ell No.			Zone	Payn	esville	Community	Rihab/Bor Thinkers		
Location	Easting	316	558	Northing	690	200	Elevation	10		m
Construction		20		Provider		M	r. Janjay Da	vis		
	Туре	1.)Dug well/ well/ 3. Othe		Well Head		2. Tire, 3. Dr Block, 6.Co			0.70	
Well Type/ Dimension	Casing	1.)Nothing, 2 Screen (Concrete colg	gate, 4. PVC casing with th Screen (m)		Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	110		Total Depth (m)	4.18 Water		Water Level (m)	2.74		
Water Use/	1. Drinking water Washing water Others (cooking)	2,3		
Yield	No. of User	50	00	Volume	15	Gallon / day / person	Total	7500	Gall	on / day
Dry-up Condition		Dry-up i				Sometimes does down by		awing, 4.	2	
	Tempera- true	27.9		pН	5.58		E.C	0.119	I	mS/cm
•	TDS	77	mg/L	Salt	0.0	ppt	Turbidity	12.7		NTU
	Others	1) Clean, 2. (Dirty, 5. Sal		colored (Yello	owish, Brown	nish, Reddish	, Other ()), 4.	1	
Contamina- tion	early morni disappears I 3. Any conta Countermea	1.Oil Contamination(a.Oil always mixes with well water. b. Although an oil mixing is confirmed in early morning, it eases by drawing. c. Although an oil film is confirmed at early morning, it disappears by drawing. d. An oil smell is felt. 2. Other contamination (blowing leaves, ants) 3. Any contamination cannot be perceived Countermeasure for contamination Chlorination 2 times/week								
Other Resident Conscious- ness	V									

***			/C E I	4 11	7 11 15 · 11 ·)			IWD2-6	
W.	ELL INVI	ENTORY	(for Expl	oratory W	ell Drilling)		Survey Date	6 Nov	. 2009
Registered W	ell No.	Life wate	er 07-020	Zone	Paynesvil	lle	Community	7	Bor Town, village OF
Location	Easting	316	601	Northing	690125		Elevation	8	m
Construction	Year	20	07	Provider	Mrs. Emmanue				
	Type	1. Dug well/ well/ 3. Other	ers	Well Head	1. Nothing, 2. Ti	ck(6)Co		hight (m)	0.30
Well Type/ Dimension	Casing	1)Nothing, 2 Screen (Concrete colg eel casing wit	gate, 4. PVC casin th Screen (ng with m)	Equipment	1.) Hand pur Draw well, .	
	Diameter (cm)			Total Depth (m)	12.2		Water Level (m)		
Water Use/	1 Drinking water 2 Washing water, 3. Others (cooking)	1,2
Yield	No. of User	50	00	Volume		llon / day / person			Gallon / day
Dry-up Condition		Dry-up iown in dry se	-), 3. Someti level goes down	mes dry- by draw	up by drawi	ng, 4. Water	2
	Tempera- true	28.7	°C	pН	5.16	•	E.C	0.016	mS/cm
Water	TDS	10	mg/L	Salt	0.0	ppt	Turbidity	8.0	NTU
Quality	Others	1) Clean, 2. (4. Dirty, 5. S		colored (Yello	owish, Brownish,	Reddish	o, Other ()),	1
Contamina- tion	early morni disappears	ng, it eases by by drawing, c ination cann asure for on	y drawing. c l. An oil smo ot be percei	c. Although a ell is felt.) 2. (ved	l water. b. Althou n oil film is confi Other contamina ek (every Saturd	rmed at tion (_		3
Other Resident Conscious- ness									

Well Type/ Dimension Casing Diameter (cm) Water Use/ Yield No. of User Dry-up Condition Temperatrue TDS Quality Others 1. Oil Contamearly morning disappears by	316282 2008 1) Dug well/ 2. 1 well/ 3. Others 1. Nothing, 2. B Screen (75 water 2) Washi 25 0, 2. Dry-up in d season (2 month	Drilled Block (3) C m), 5. Ste	Zone Northing Provider Well Head Concrete colg el casing wit Total Depth (m)	Paynesville 690111 1. Nothing, 2. Tire, 3. Dr masonry, 5, Block, 6 Cor rate, 4. PVC casing with h Screen (m) 3.20		Well head hight (m) 1. Hand pun	
Location Easting Construction Year Type Type Casing Diameter (cm) Water Use/ Yield No. of User Dry-up Condition Temperatrue TDS Quality Others 1. Oil Contamearly morning disappears by Any contamination Countermeas contamination Disease by water Other Resident Conscious-	2008 1.) Dug well/ 2. I well/ 3. Others 1. Nothing, 2. B Screen (75 water 2 Washi 25 9, 2. Dry-up in d season (2 months)	Drilled Block (3) C m), 5. Ste	Northing Provider Well Head Concrete colg el casing wit Total Depth (m)	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block, 6/Co rate, 4. PVC casing with h Screen (m)	Elevation Mr. Andrew rum, 4. Stone ncrete Equipment	Well head hight (m) 1. Hand pun	village OF m
Construction Year Type Casing Diameter (cm) Water Use/ Yield No. of User Dry-up Condition Temperatrue TDS Quality Others Contamination Countermeas contamination Other Resident Conscious-	2008 1.) Dug well/ 2. I well/ 3. Others 1. Nothing, 2. B Screen (75 water 2 Washi 25 9, 2. Dry-up in d season (2 months)	Drilled Block (3) C m), 5. Ste	Provider Well Head Concrete colg el casing wit Total Depth (m)	1. Nothing, 2. Tire, 3. Dr masonry, 5, Block Co sate, 4. PVC casing with th Screen (m)	Mr. Andrew rum, 4. Stone ncrete Equipment	Well head hight (m) 1. Hand pun	
Well Type/ Dimension Casing Diameter (cm) 1. Drinking v No. of User Pry-up Condition I. No dry-up down in dry Temperatrue TDS Quality Others 1. Oil Contamearly mornin disappears by Any contamin Countermeas contaminatio Disease by with	1.) Dug well/ 2. 1 well/ 3. Others 1. Nothing, 2. B Screen (75 water 2 Washi 25 o, 2. Dry-up in d season (2 months)	Drilled Block (3) C m), 5. Ste	Well Head Concrete colg el casing wit Total Depth (m)	masonry, 5, Block @Co gate, 4. PVC casing with th Screen (m)	rum, 4. Stone ncrete Equipment	Well head hight (m) 1. Hand pun	0.60
Well Type/ Dimension Casing Diameter (cm) I. Drinking v No. of User Dry-up Condition Temperatrue TDS Quality Others Contamination Countermeas contaminatio Disease by work Other Resident Conscious-	well/ 3. Others 1. Nothing, 2. B Screen (75 water ② Washi 25 25, 2. Dry-up in d season (2 month)	Block(3) C m), 5. Ste	Concrete colg rel casing wit Total Depth (m)	masonry, 5, Block @Co gate, 4. PVC casing with th Screen (m)	Equipment	hight (m) 1. Hand pun	0.60
Well Type/ Dimension Casing Diameter (cm) I. Drinking v No. of User Dry-up Condition Temperatrue TDS Quality Others 1. Oil Contamearly mornin disappears by Any contamination Countermeas contamination Disease by was a single of the conscious-	1. Nothing, 2. B Screen (75 water 2 Washi 25 o, 2. Dry-up in d season (2 month	m), 5. Ste	Concrete colg el casing wit Total Depth (m)	tate, 4. PVC casing with th Screen (m)	Equipment		
Water Use/ Yield No. of User Dry-up Condition No. of User I. No dry-up down in dry s Temperatrue TDS Quality Others 1.Oil Contamearly mornin disappears by Any contamination Countermeas contaminatio Disease by water Other Resident Conscious-	75 water② Washi 25 o, 2. Dry-up in d season (2 mont		Total Depth (m)	3.20	XX7 4	Draw well, 3	np well(2). 3. Others
Water Use/ Yield No. of User Dry-up Condition 1. No dry-up down in dry: Temperatrue TDS Quality Others 1.Oil Contamearly morning disappears by Any contamination Countermeas contamination Disease by with Other Resident Conscious-	25 o, 2. Dry-up in d season (2 mon				Water Level (m)	0.90	
No. of User Dry-up Condition 1. No dry-up down in dry Tempera- true TDS Quality Others 1.Oil Contam early mornin disappears by Any contami Countermeas contaminatio Disease by with Other Resident Conscious-	o, 2. Dry-up in d season (2 mon			cooking, bathing)		2,3
Condition down in dry s Temperatrue TDS Quality Others 1.Oil Contamearly mornin disappears by Any contamin Countermeas contamination Other Resident Conscious-	season (2 mon		Volume	15 Gallon / day / person	LIOTAL	375	Gallon / day
Water Quality TDS Others 1.Oil Contamearly morning disappears by Any contamination Countermeast contamination Other Resident Conscious-		•	ı (), 3. Water level	Sometimes dry-up by dr goes down by drawing		ter level goes	4
Water Quality Others 1.Oil Contamearly morning disappears by Any contamination Countermease contamination Other Resident Conscious-	28.1		рН	6.45	E.C	0.215	mS/cm
Quality Others 1.Oil Contamearly morning disappears by Any contamination Countermease contamination Other Resident Conscious-	140	mg/L	Salt	0.0 ppt	Turbidity	7.1	NTU
Contamination Contamination Countermeas contamination Other Resident Conscious-	1) Clean, 2. Clo 4. Dirty, 5. Salt	• .	olored (Yello) owish, Brownish, Reddisl	n, Other ()),	1
Resident Conscious-	y drawing. d. A ination cannot l sure for on	n oil sme	ll is felt.(2)(n oil film is confirmed at Other contamination (bl			

**/	ELL INIXI		(C. E.	1 4 33	7 11 D ' 111' \			IWD2-8	
W	ELL INVI	ENTORY	(for Ex	ploratory W	Vell Drilling)		Survey Date	6 Nov	. 2009
Registered Wo	ell No.			Zone	Paynesvill	e	Community	7	Bor Town, village OF
Location	Easting	316	5201	Northing	690496		Elevation	10	m
Construction	Year	20	009	Provider		Mı	rs. Delicia Be	erry	
	Туре	1.)Dug well/ well/ 3. Oth		Well Head	1. Nothing, 2. Tir masonry, 5, Bloc			Well head hight (m)	0.50
Well Type/ Dimension	Casing	1. Nothing, Screen (3.)Concrete colg Steel casing wi		ate, 4. PVC casing with		1. Hand pur Draw well, 3	
	Diameter (cm)	73		Total Depth (m)	7.55		Water Level (m)	2.70	
Water Use/	1) Drinking water 2) Washing water, 3. Others (cooking, bathing))	1,2
Yield	No. of User	50	00	Volume	15 Gall	lon / day / person	Total	7500	Gallon / day
Dry-up Condition	1)No dry-uj goes down i	p, 2. Dry-up n dry season), 3. Sometimes dr r level goes down			Water level	1
	Tempera- true	27.8		°C pH	7.52	<u></u>	E.C	0.053	mS/cm
Water	TDS	34	mş	g/L Salt	0.0	ppt	Turbidity	6.2	NTU
Quality	Others	1) Clean, 2. 4. Dirty, 5. S		. Colored (Yell	owish, Brownish, l	Reddish	n, Other ()),	1
Contamina- tion	early morni disappears	ng, it eases b by drawing. nination cann asure for non	y drawing d. An oil s not be per	g. c. Although a smell is felt.) 2.	ll water. b. Althou an oil film is confir Other contaminat eks	med at	_		3
Other Resident Conscious- ness	Discuse by	The state of the s							
							0		

***					, 11 D 1111 \			IWD2-9	
W.	ELL INVI	ENTORY (f	or Expl	oratory W	ell Drilling)		Survey Date	6 Nov	. 2009
Registered W	ell No.			Zone	Paynesvi	lle	Community	Rihab/Bor Thinkers	Bor Town, village OF
Location	Easting	31626	55	Northing	690564		Elevation	11	n
Construction	Year	2009)	Provider		Mrs	. Pamela Sav	wyer	
	Туре	1.)Dug well/ 2. well/ 3. Others	S	Well Head	1. Nothing, 2. Tire, 3. Drum, 4. Stonmasonry, 5, Block, 6.Concrete			Well head hight (m)	0.5
Well Type/ Dimension	Casing	1.)Nothing, 2. Screen (Concrete colg eel casing wit	gate, 4. PVC casin th Screen (ng with m)	Equipment	1. Hand pun Draw well, 3	
	Diameter (cm)	120		Total Depth (m)	5.40		Water Level (m)	2.45	
Water Use/	1. Drinking	water, 3. Wash	ing water	,3. Others (cooking)	2,3
Yield	No. of User	250		Volume		llon / day / person			Gallon / da
		o, 2. Dry-up in	-), 3. Somet	imes dry	-up by draw	ing, 4. Water	1
Condition	Tempera- true	own in dry seas 27.8	•), 5.	Water level goes	s down b	E.C	0.034	mS/cr
Water	TDS	22	mg/L	Salt	0.0	ppt	Turbidity	8.0	NT
Quality	Others (1) Clean, 2. Cl 4. Dirty, 5. Sal	•	Reddish	, Other ()),	1		
Contamina- tion	early morni disappears l Any contam Countermea contaminati	ng, it eases by oby drawing. d. ination cannot asure for on	drawing. c An oil sme be percei	. Although a ell is felt.) 2. (l water. b. Altho n oil film is confi Other contamina eks	irmed at			3
04	Disease by v	vater							
Other Resident Conscious- ness									
									1





Well is less than 1 year old.

***	DI I INIX/1		/6 E 1		. 11 15 - 111 - 1			IWD2-10		
W	ELL INVI	ENTORY	(for Explo	oratory W	Tell Drilling)	Survey Date	6 Nov	. 2009	
Registered Wo	ell No.			Zone	Paynes	ville	Community		orBor Town, s village OF	
Location	Easting	315	928	Northing	69063	30	Elevation	10		m
Construction	Year	-	08	Provider		Mr.	Reuben John			
	Туре	1.)Dug well/ well/ 3. Otho	ers	Well Head	1. Nothing, 2. masonry, 5, B	lock 6 Cor		hight (m)		0.6
Well Type/ Dimension	Casing (1) Nothing, 2 Screen (Concrete colg eel casing wit	ate, 4. PVC ca h Screen (sing with m)	Equipment	1. Hand pur Draw well, 3		
	Diameter (cm)	105		Total 4.50 Depth (m)			Water Level (m)	2.20		
Water Use/	1. Drinking	water. Wa	shing water	, 3. Others ()		1,2	
Yield	No. of User	50	00	Volume	15	Gallon / day / person	Total	7500	Gallon	/ da
Dry-up Condition		p, 2. Dry-up i n dry season			3. Sometimes d level goes dow			ater level	4	
	Tempera- true	28.4	°C	pН	5.67		E.C	0.065	m	S/cm
Water	TDS	42	mg/L	Salt	0.0	ppt	Turbidity	0.0		NTU
Quality	Others	(1) Clean, 2. Cloudy, 3. Colored (Yellowish, Brownish, Reddish, Others 4. Dirty, 5. Salty							1	
Contamina- tion	early morni disappears	ng, it eases b by drawing. o nination cann asure for on	y drawing. c d. An oil sme ot be percei	. Although a ell is felt.) 2. (ved	l water. b. Alth n oil film is con Other contamin k (every Sature	nfirmed at nation (3	
Other Resident Conscious- ness										

***			TZ *	4_ ***	7-11 D211.			IWD2-11			
W	ELL INVI	ENTORY (fo	r Expl	oratory W	(ell Drilling)		Survey Date	6 Nov	. 2009		
Registered W	ell No.			Zone	Paynesville		Community	Rihab/Bor Thinkers	Bor Town village OF		
Location	Easting	315675	;	Northing	690717		Elevation	6	1		
Construction	Year	2006		Provider		Mı	. Jastina All	llison			
	Туре	1.)Dug well/ 2. I well/ 3. Others		Well Head	1. Nothing, 2. Tire, masonry, 5, Block,	3 .Co		hight (m)			
Well Type/ Dimension	Casing			Concrete colgate, 4. PVC casing w eel casing with Screen (m)			Equipment	1. Hand pur Draw well, 3			
Difference	Diameter (cm)	65		Total Depth (m)	12.00		Water Level (m)	Diaw wen,	, others		
Water Use/	1) Drinking	water Washi	ng water)		1,2		
Yield	No. of User	500		Volume	15 Gallor	n / day person	Total	7500	Gallon / d		
Dry-up Condition	goes down i	p, 2. Dry-up in d n dry season (fo	-), 3. Sometimes dry- er level goes down b			Water level	4		
	Tempera- true	29.0	°C	pН	5.69		E.C	0.065	mS/c		
Water	TDS	44	mg/L	Salt	0.0	ppt	Turbidity	0.0	NT		
Quality	Others	1.)Clean, 2. Clo 4. Dirty, 5. Salt		olored (Yello	owish, Brownish, Ro	eddish	, Other ()),	1		
Contamina- tion	early morni disappears	ng, it eases by di by drawing. d. A <u>nination cannot hasure for Ch</u> ion	rawing. o in oil smo oe percei	e. Although a ell is felt.) 2. (l water. b. Although n oil film is confirm Other contaminatio	ed at			3		
Other Resident Conscious- ness											
1			5								





Appendix-2

Record of 2nd Inventory Survey

			J-5 Area						
(21	nd Time Ob	servation	for Explo	ratory Wo	ell Drilling	g)	Survey Date	24 Feb	. 2010
Well No.	J - 5	J - 5	J - 5	J - 5	J - 5	J - 5	J - 5	J - 5	J - 5
OW Well No.	OW5-1	OW5-2	OW5-3	OW5-4	OW5-5	OW5-6	OW5-7	OW5-8	OW5-9
Observation time	11:42	11:43	11:45		11:48	12:00	12:05	11:52	12:13
Well head hight (m)	0.67	0.90	0.46	0.44	0.50	0.65	0.71	0.05	0.40
Water Level (m)	3.00	5.07	3.72		6.58	8.83	6.55	6.95	6.00
Water									
Temperatrue (°C)	29.0	28.7	28.8		28.6	28.0	28.0	28.7	27.9
рH	5.59	4.71	5.46		5.60	5.18	4.83	5.62	4.43
E.C (mS/cm)	0.070	0.074	0.080		0.054	0.073	0.136	0.054	0.072
TDS (mg/L)	45	48	51		35	47	88	35	46
Turbidty (NTU)	12.6	4.4	6.2	Dry up	15.6	10.5	14.9	20.0	23.6
Remarks									
Well No.	J - 5								
OW Well No.	OW5-10								
Observation time	12:18								
Well head hight (m)	0.10								
Water Level (m)	4.60								
Water									
Temperatrue (°C)	28.3								
рH	4.54								
E.C (mS/cm)	0.040								
TDS (mg/L)	25								
Turbidty (NTU)	10.3								
Remarks	temarks								

	WELL INVENTORY J-6 Area												
(21	nd Time Ob	servation	for Explo	ratory Wo	ell Drilling	3 1	Survey Date	25 Feb	. 2010				
Well No.	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6				
OW Well No.	OW6-1	OW6-2	OW6-3	OW6-4	OW6-5	OW6-6	OW6-7	OW6-8	OW6-9				
Observation time	9:42	9:59	10:04	10:08	10:11	10:12	10:15	10:21	10:18				
Well head hight (m)	0.60	0.85	0.58	0.53	0.40	0.45	0.45	0.30	0.95				
Water Level (m)	4.00	2.11	0.98	2.84	2.12		3.11	3.16	4.25				
Water Temperatrue	20.1	29.7	20.0	27.0	20.6		20.0	20.4	20.6				
(°C)	29.1	28.7	28.9	27.9	28.6		28.8	28.4	28.8				
pН	6.50	5.99	6.40	6.46	6.59		6.67	6.73	6.35				
E.C (mS/cm)	0.285	0.182	0.271	0.149	0.154		0.153	0.138	0.094				
TDS (mg/L)	185	118	176	97	100		99	90	60				
Turbidty (NTU)	3.9	8.1	60.9 Salt; 0.1	8.2	4.1		370.0	37.5	22.9				
Remarks													
Well No.	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6	J - 6				
OW Well No.	OW6-10	OW6-11	OW6-12	OW6-13	OW6-14	OW6-15	OW6-16	OW6-17	OW6-18				
Observation time	9:50			9:45	9:48	9:50	10:38	10:36	10:45				
Well head hight (m)	0.00	1.10	0.45	0.60	0.45	0.50	0.40	0.62	0.45				
Water Level (m)	3.25			3.05	2.88	2.80	3.40	4.81	6.60				
Water Temperatrue	-0.0				-0.4								
(°C)	28.0			28.4	28.2		28.4	27.5	29.6				
pH	6.40			6.00	5.94		5.90	6.23	5.82				
E.C (mS/cm)	0.168			0.099	0.207	0.413	0.200	0.209	0.097				
TDS (mg/L) Turbidty	109			63	134			136	620				
(NTU)	125.0			12.4	22.4	3.4	2.3	12.6	0.0				
Remarks		Hand Pump Well	Dry up										

			J-7 Area						
(21	nd Time Ob	servation	for Explo	ratory Wo	ell Drilling	g)	Survey Date	25 Fel	o. 2010
Well No.	J - 7	J - 7	J - 7	J - 7	J - 7	J - 7	J - 7	J - 7	J - 7
OW Well No.	OW7-1	OW7-2	OW7-3	OW7-4	OW7-5	OW7-6	OW7-7	OW7-8	OW7-9
Observation time	11:35	11:38	11:42	12:12	11:59	12:06	11:54	11:52	11:48
Well head hight (m)	0.80	0.70	0.40	0.60	0.47	0.35	0.71	0.65	
Water Level (m)	5.81	4.67	5.05		4.60	4.25	6.70	7.40	
Water									
Temperatrue (°C)	28.5	28.5 28.2			27.8	27.8	27.9	28.9	28.6
pН	6.22 5.35		5.71		4.86	5.78	4.98	6.25	4.84
E.C (mS/cm)	0.044	0.055	0.060		0.056	0.150	0.046	0.118	0.080
TDS (mg/L)	29	35	39		36	97	30	76	52
Turbidty (NTU)	8.6	1.6		Locked	18.7	0.0	2.8	4.9	0.0 Hand
Remarks									Pump Well
Well No.									
OW Well No.									
Observation time									
Well head									
hight (m)									
Water Level									
(m)									
Water									
Temperatrue (°C)									
pH									
E.C (mS/cm)									
TDS (mg/L)									
Turbidty (NTU)									
Remarks									

			J-8 Area						
(2	nd Time Ob	servation	for Explo	ratory Wo	ell Drilling		Survey Date	26 Feb	. 2010
Well No.	J - 8	J - 8	J - 8	J - 8	J - 8	J - 8	J - 8	J - 8	J - 8
OW Well No.	OW8-1	OW8-2	OW8-3	OW8-4	OW8-5	OW8-6	OW8-7	OW8-8	OW8-9
Observation time	11:14	11:21	11:26	11:30	11:34	11:39	11:45	11:53	11:56
Well head hight (m)	0.55	0.35	0.20	0.60	1.10	0.89	0.50	0.60	0.90
Water Level (m)	3.41	4.71	2.94	2.28	2.54	2.70	5.25	2.80	2.84
Water Temperatrue	20.1	27.7		20.0	20.0	20.0	21.0	20.9	20.0
(°C)	29.1	27.7		28.8	28.8	28.9	31.8	29.8	28.8
pН	7.03	6.04		6.56	6.83	6.52	7.03	6.91	6.53
E.C (mS/cm)	0.412	0.030		0.078	0.075	0.040	0.102	0.156	0.244
TDS (mg/L)	268	19		50	49	26	66	101	158
Turbidty (NTU)	56.4	12.2		13.3	1.9	12.7	12.8	5.0	2.8
Remarks			up						
Well No.	J - 8	J - 8	J - 8						
OW Well No.	OW8-10	OW8-11	OW8-12						
Observation time	12:04		12:08						
Well head hight (m)	0.60		0.40						
Water Level (m)	3.75		4.37						
Water Temperatrue	20.7		20.5						
(°C)	28.7		28.5						
pН	6.96		6.42						
E.C (mS/cm)	0.297		0.083						
TDS (mg/L)	193		54						
Turbidty (NTU)	20.6		7.0						
Remarks	Salt; 0.1 ppt Locked								

			J-9 Area						
(2)	nd Time Ob	servation	for Explo	ratory Wo	ell Drilling	g)	Survey Date	26 Feb	. 2010
Well No.	J - 9	J - 9	J - 9	J-9	J - 9	J - 9	J - 9	J - 9	J - 9
OW Well No.	OW9-1	OW9-2	OW9-3	OW9-4	OW9-5	OW9-6	OW9-7	OW9-8	OW9-9
Observation time	9:51	9:55	10:02	10:07	10:12	10:19	10:28	10:29	10:35
Well head hight (m)	0.68	0.75	0.16	0.89	0.82	0.47	0.61	0.80	0.95
Water Level (m)	2.08	1.85	1.68	1.78	3.31	2.48	1.89	3.64	2.49
Water Temperatrue									
(°C)	28.1	27.8	28.2	28.7	28.5	28.7	28.7	28.2	28.2
pН	5.32	6.09	4.70	6.31	6.24	6.60	6.68	6.69	5.91
E.C (mS/cm)	0.296	0.223	0.255	0.332	0.137	0.168	0.351	0.302	0.103
TDS (mg/L)			166	166 216 89 109		228	196	67	
Turbidty (NTU)			82.0	13.1 Salt; 0.1	17.3	9.0	58.3 Salt; 0.1	66.4 Salt; 0.1	5.9
Remarks				ppt			ppt	ppt	
Well No.	J - 9	J - 9	J-9	J - 9					
OW Well No.	OW9-10	OW9-11	OW9-12	OW9-13					
Observation time	10:38	10:41	10:50	10:54					
Well head	0.51	0.58	1.00	0.63					
hight (m) Water Level	2.05								
(m) Water									
Temperatrue	28.1	28.5	29.3	28.5					
pH	6.14	6.65	6.00	5.72					
E.C (mS/cm)	0.203	0.624	0.143	0.196					
TDS (mg/L)	132	400	93	127					
Turbidty (NTU)	6.8	11.9	17.0	12.2					
Remarks		Salt; 0.1 ppt							

WELL INVENTORY J-10, J-11 Area											
(2	and Time Ob	servation	for Explo	oratory W	ell Drilling		Survey Date	27 Feb	. 2010		
Well No.	J - 10	J - 10	J - 10	J - 10	J - 10	J - 10	J - 10	J - 10	J - 10		
OW Well No.	OW10-1	OW10-2	OW10-3	OW10-4	OW10-5	OW10-6	OW10-7	OW10-8	OW10-9		
Observation time	14:21	14:56	15:12	15:20	15:02	14:27	14:29	14:31	14:41		
Well head hight (m)	1.00	0.30	0.70	0.65	0.71	0.83	0.35	0.65	0.48		
Water Level (m)	1.56	0.84	2.11	1.48	1.40	1.78	2.45	2.28	1.00		
Water											
Temperatrue (°C)		30.3	28.9	29.2	29.4	29.3	29.2	29.1	30.0		
pН		6.63	6.78	7.38	6.38	6.47	5.21	7.20	7.23		
E.C (mS/cm)		0.153	0.185	0.311	0.373	0.204	0.106	0.220	0.254		
TDS (mg/L)		99	120	202	242	132	69	143	165		
Turbidty (NTU)	Dry up	0.0	3.2	0.0 Salt; 0.1	19.9 Salt; 0.1	3.8	23.4	0.0	20.4		
Remarks				ppt	ppt						
Well No.	J - 10										
OW Well No.	OW10-10										
Observation time	14:48										
Well head hight (m)	0.96										
Water Level (m)	2.21										
Water											
Temperatrue (°C)	28.9										
pН	6.87										
E.C (mS/cm)	0.261										
TDS (mg/L)	170										
Turbidty (NTU)	22.2										
Remarks											

		Diabase	Intrusion	n-1 Area					
(2	nd Time Ob	servation	for Explo	ratory Wo	ell Drilling	3 1	Survey Date	28 Feb	. 2010
Group No.	IWD-1	IWD-1	IWD-1	IWD-1	IWD-1	IWD-1	IWD-1	IWD-1	IWD-1
OW Well No.	IWD1-1	IWD1-2	IWD1-3	IWD1-4	IWD1-5	IWD1-6	IWD1-7	IWD1-8	IWD1-9
Observation time	14:21	14:56	15:12	15:20	15:02	14:27	14:29	14:31	14:41
Well head hight (m)	0.31	0.55	1.13	0.50	0.10	0.30	0.72	0.52	0.15
Water Level	7.80	3.50	4.40	10.89	8.04	8.90	4.26	6.00	2.23
Water Temperatrue	28.3	28.6	28.3		28.2		28.8	28.2	28.8
(°C)									
pH	5.64		5.97		6.37		6.03	6.20	5.05
E.C (mS/cm)			0.118		0.056		0.091	0.049	0.035
TDS (mg/L)	0.02	0	0		0		0	0	0
Turbidty (NTU)	27.2	41.0	4.0		3.2		7.2	53.4	15.2
Remarks				ир					
Group No.	IWD-1	IWD-1	IWD-1	IWD-1					
OW Well No.	IWD1-10	IWD1-11	IWD1-12	IWD1-13					
Observation time	11:29	11:01	11:10	11:18					
Well head hight (m)	0.45	0.80	2.64	2.85					
Water Level (m)	7.75	2.84	7.00	7.57					
Water Temperatrue	28.0	29.2	28.3	27.8					
(°C)	5.27								
pH	0.055								
E.C (mS/cm)	36								
TDS (mg/L) Turbidty	11.3								
(NTU)		0.0	4.1	7.5					
Remarks	Almost dry up								

		Diabase	Intrusion	n-2 Area					
(21	nd Time Ob	servation	for Explo	ratory W	ell Drillin	g)	Survey Date	28 Feb	. 2010
Group No.	IWD-2	IWD-2	IWD-2	IWD-2	IWD-2	IWD-2	IWD-2	IWD-2	IWD-2
OW Well No.	IWD2-1	IWD2-2	IWD2-3	IWD2-4	IWD2-5	IWD2-6	IWD2-7	IWD2-8	IWD2-9
Observation time	9:59	9:51	10:07			10:15	10:20	4:40	9:46
Well head hight (m)	0.67	0.40	0.00	0.42	0.70	0.30	0.60	0.56	0.52
Water Level (m)	3.34	3.33	7.45				2.46	7.04	5.43
Water Temperatrue	28.7	27.8	27.7			29.1	29.2	27.8	27.7
(°C) pH	6.14 6.35		6.20			5.62	6.41	7.62	7.15
E.C (mS/cm)	0.042	0.022	0.033			0.015	0.268	0.090	0.044
TDS (mg/L)	27	14	21			9	186	58	28
Turbidty (NTU)	1.4	10.1	89.3			0.0	11.9	14.2	51.4
Remarks				Dry up	Dry up	Hand Pump Well			
Group No.	IWD-2	IWD-2							
OW Well No.	IWD2-10	IWD2-11							
Observation time	10:35	10:38							
Well head hight (m)	0.60								
Water Level (m)	3.21								
Water Temperatrue (°C)	28.9								
pH	6.43								
E.C (mS/cm)	0.059								
TDS (mg/L)	38								
Turbidty (NTU)	4.3								
Remarks		Hand Pump Well, Locked							

Appendix-3

Results of Water Quality Analysis

YACHIYO ENGINEERING Co, Ltd.

F11-2009-3876E Report No. Date 17-Mar-10



alysis Service Co. Ltd. wakamiya morinosato Main offic TEL +8

Examination: The Master Plan Study on Urban Facilities Restoration and Improvement in Montovia in the Republic of Liberia (JICA Project)

San	ple name		J-5								
Ana	lysis date	2	3-Feb-10								
	analyte	analysis results	detection	limit	Analysis Method		analyte	analysis results	detection	limit	Analysis Method
1	pH(19°C)	7.4	_		Glass Electrode	27	Cyanide	0,001 less	0.001	less	Ion Chromatography
2	Turbidity	29.2	0.2	less	transmitted beam	28	Lead	0.001 less	0.001	less	ICP-MS
3	Color	56,8	0.5	less	transmitted beam	29	Mercury	0,00005 less	0.00005	less	Atomic absorption spectrophotometer
4	Alkalinity⊸OH	2 less	2	less	Titrimetry	30	Boron	0.1 less	0.1	less	ICP-MS
5	AlkalInIty-CO	2 less	2	less	Titrimetry	31	Brium	0.07 less	0.07	less	ICP-MS
6	Alkalinity—HCO	62	2	less	Titrimetry	32	Molybdenum	0.007 less	0.007	less	ICP-MS
7	Calcium	14	1	less	Atomic absorption spectrophotometer	33	Nickel	0.010	0.001	less	ICP-MS
8	Magnesium	4	1	less	Atomic absorption spectrophotometer	34	Flouride	0.32	0.08	less	lon Chromatography
9	Total Hardness	53	1	less	Atomic absorption spectrophotometer	****		-blank-			
10	<u>Li</u>	-1.09	-		-						
11	Potassium	6.2	0.1	less	Atomic absorption spectrophotometer						
12	Sodium	10.7	0.1	less	Atomic absorption spectrophotometer						
13	Chlorides	2.2	0.2	less	Ion Chromatography						
14	SO42~	6.5	1.0	less	Ion Chromatography						
15	TDS	171	1	less	gravimetric method						
16	NH4-N	80.0	0.05	less	absorptiometry						
17	NO3-N	0.5 less	0.5	less	Ion Chromatography						
18	NO ₂ -N	0.5 less	0.5	less	Ion Chromatography						
19	Silica	93	2,0	less	absorptiometry						
20	iron	2.40	0,01	less	Atomic absorption spectrophotometer						
21	Manganese	0.217	0.005	less	ICP-MS						
22	Arsenic	0.007	0,001	less	ICP-MS						
23	Selenium	0.001 less	0.001	less	ICP-MS						
24	Copper	0.01 less	0.01	less	ICP-MS						
25	Caddmimum	0.001 less	0.001	less	ICP-MS						

26	Chromiur	m	0.005 less	0.005 less	ICP-MS					
c	client SINPEI SUGAWARA									
ad	ldress	Kurita A	nalysis Service (Co. Ltd,					·	

analyst

YACHIYO ENGINEERING Co, Ltd.

 Report No.
 F11-2009-3261E

 Date
 2010/2/26



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Examination: The Master Plan Study on Urban Facilities Restoration and Improvement in Montovia in the Republic of Liberia (JICA Project)

Sam	ple name		J-6								
Ana	lysis date										
	analyte	analysis results	detection	limit	Analysis Method		analyte	analysis results	detection	ı limit	Analysis Method
1	pH(16℃)	7.7	-		Glass Electrode	27	Cyanide	0.001 less	0.001	less	Ion Chromatography
2	Turbidity	2.6	0.2	less	transmitted beam	28	Lead	0,001 less	0.001	less	ICP-MS
3	Color	42.1	0.5	less	transmitted beam	29	Mercury	0.00005 less	0.00005	less	Atomic absorption spectrophotometer
4	Alkalinity-OH	2 less	2	less	Titrimetry	30	Boron	0.1 less	0.1	less	ICP-MS
5	Alkalinity-CO	2 less	2	less	Titrimetry	31	Brium	0.07 less	0.07	less	ICP-MS
6	Aikailnity-HCO	94	2	less	Titrimetry	32	Molybdenum	0.007 less	0.007	less	ICP-MS
7	Calcium	20.5	1	less	Atomic absorption spectrophotometer	33	Nickel	0.019	0.001	less	ICP-MS
8	Magnesium	7.1	1	less	Atomic absorption spectrophotometer	34	Flouride	0.15	0.08	less	lon Chromatography
9	Total Hardness	80	1	less	Atomic absorption spectrophotometer			-blank-			
10	Li	-0.46	-		_						
11	Potassium	3.6	0.1	less	Atomic absorption spectrophotometer						
12	Sodium	10.7	0.1	less	Atomic absorption spectrophotometer	_					
13	Chlorides	2.6	0.2	less	Ion Chromatography						
14	SO ₄ ²⁻	14.9	1.0	less	Ion Chromatography						
15	TDS	206	1	less	gravimetric method						
16	NH ₄ -N	0.07	0,05	less	absorptiometry						
17	NO ₃ -N	0.5 less	0,5	less	lon Chromatography						
18	NO ₂ -N	0.5 less	0.5	less	lon Chromatography					vn	
19	Silica	82	2.0	less	absorptiometry						
20	Iron	0.85	0.01	less	Atomic absorption spectrophotometer						
21	Manganese	0,110	0.005	less	ICP-MS						
22	Arsenic	0.011	0.001	less	ICP-MS						
23	Selenium	0.001 less	0.001	less	ICP-MS						
24	Copper	0.01 less	0.01	less	ICP-MS						
25	Caddmimum	0.001 less	0.001	less	ICP-MS						
26	Chromium	0,005 less	0,005	less	ICP-MS						

client	SINPEI SUGAWARA
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YACHIYO ENGINEERING Co, Ltd.

0.10

0.001 less

0.005 less

Copper

Caddmimum

Chromium

0.01 less

0.001 less

0.005 less

Report No. F11-2009-3359-1E

Date 2010/2/26



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Examination: The Master Plan Study on Urban Facilities Restoration and Improvement in Montovia in the Republic of Liberia (JICA Project)

Sam	ple name		J-7								
Anal	ysis date	2	010/1/9								
	analyte	analysis results	detection	limit	Analysis Method		analyte	analysis results	detection	limit	Analysis Method
1	pH(16°C)	8.0	-		Glass Electrode	27	Cyanide	0.001 less	0,001	less	Ion Chromatography
2	Turbidity	1,6	0.2	less	transmitted beam	28	Lead	0.002	0.001	less	ICP-MS
3	Color	0.7	0.5	less	transmitted beam	29	Mercury	0.00005 less	0,00005	less	Atomic absorption spectrophotometer
4	AlkalinityOH	2 less	2	less	Titrimetry	30	Boron	0.2	0.1	less	ICP-MS
5	Alkalinity-CO	2 less	2	less	Titrimetry	31	Brium	0.09	0.07	less	ICP-MS
6	Alkalinity-HCO	161	2	less	Titrimetry	32	Molybdenum	0.007 less	0.007	less	ICP-MS
7	Calcium	19.7	1	less	Atomic absorption spectrophotometer	33	Nickel	0.017	0,001	less	ICP-MS
8	Magnesium	6.5	1	less	Atomic absorption spectrophotometer	34	Flouride	0,53	0.08	less	Ion Chromatography
9	Total Hardness	76	1	less	Atomic absorption spectrophotometer	i		-blank-			
10	Li	0.05	-		_						
11	Potassium	6.0	0.1	less	Atomic absorption						
12	Sodium	23.0	0,1	less	Atomic absorption spectrophotometer						
13	Chlorides	1.9	0,2	less	Ion Chromatography						
14	SO ₄ ²⁻	13.7	1,0	less	Ion Chromatography						
15	TDS	212	1	less	gravimetric method						
	NH₄N	0.12	0.05	less	absorptiometry						
17	NO ₃ -N	0.5 less	0.5	less	Ion Chromatography						
18	NO ₂ -N	0.5 less	0.5	less	Ion Chromatography						
19	Silica	43	2.0	less	absorptiometry						
20	lron	0.01	0.01	less	Atomic absorption spectrophotometer						
21	Manganese	0.012	0,005	less	ICP-MS						
22	Arsenic	0.017	0.001	less	ICP-MS						
23	Selenium	0.001 less	0.001	less	ICP-MS						
		1						1			

client	SINPEI SUGAWARA
address	Kurita Analysis Service Co. Ltd.

ICP-MS

ICP-MS

ICP-MS

analyst 分

YACHIYO ENGINEERING Co, Ltd.

Report No. F11-2009-3462E

Date 2010/2/26



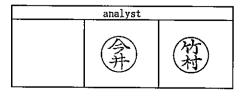
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Examination: The Master Plan Study on Urban Facilities Restoration and Improvement in Montovia in the Republic of Liberia (JICA Project)

Sam	ple name	· · · · · · · · · · · · · · · · · · ·	J-8								
Anal	Analysis date 2010/1/22										
Π	analyte	analysis results	detection	letection limit Analysis Method		analyte		analysis results	detection	ı limit	Analysis Method
1	pH(16°C)	5.2	-		Glass Electrode	27	Cyanide	0.001 less	0.001	less	Ion Chromatography
2	Turbidity	0.4	0,2	less	transmitted beam	28	Lead	0.001 less	0.001	less	ICP-MS
3	Color	0.5 less	0.5	less	transmitted beam	29	Mercury	0.00005 less	0,00005	less	Atomic absorption spectrophotometer
4	Alkalinity-OH	2 less	2	less	Titrimetry	30	Boron	0.1 less	0.1	less	ICP-MS
5	AlkalInIty-CO	2 less	2	less	Titrimetry	31	Brium	0.07 less	0.07	less	ICP-MS
6	AlkalinIty-HCO	6	2	less	Titrimetry	32	Molybdenum	0.007 less	0.007	less	ICP-MS
7	Calcium	1 less	1	less	Atomic absorption spectrophotometer	33	Nickel	0001 less	0.001	less	ICP-MS
8	Magnesium	1 less	1	less	Atomic absorption spectrophotometer	34	Flouride	0.08 less	80,0	less	Ion Chromatography
9	Total Hardness	1 less	1	less	Atomic absorption spectrophotometer			-blank-			
10	Li	-5.8 less	-		_						
11	Potassium	0.2	0,1	less	Atomic absorption spectrophotometer						
12	Sodium	1.9	0.1	less	Atomic absorption spectrophotometer						
13	Chlorides	2.7	0.2	less	Ion Chromatography						
14	SO ₄ ²⁻	1.0 less	1.0	less	Ion Chromatography						
15	TDS	16	1	less	gravimetric method				,		
16	NH ₄ -N	0.05 less	0.05	less	absorptiometry						
17	NO ₃ -N	0.5 less	0,5	less	Ion Chromatography						
18	NO ₂ -N	0.5 less	0,5	less	Ion Chromatography		- 1 				
19	Silica	13	2.0	less	absorptiometry						
20	iron	0.01 less	0,01	less	Atomic absorption spectrophotometer						
21	<u>Manganese</u>	0.007	0.005	less	ICP-MS						
22	<u>Arsenic</u>	0.001 less	0,001	less	ICP-MS						
23	Selenium	0.001 less	0.001	less	ICP-MS						
24	Copper	0.01 less	0.01	iess	ICP-MS						
25	Caddmimum	0.001 less	0.001	less	ICP-MS						
26	Chromium	0.005 less	0.005	less	ICP-MS						

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Report No. F11-2009-3359-2E
Date 2010/2/26



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Examination: The Master Plan Study on Urban Facilities Restoration and Improvement in Montovia in the Republic of Liberia (JICA Project)

Sam	ple name		J-9							
Ana	lysis date	20	010/1/11							
Γ	analyte	analysis results	detection limi	Analysis Method		analyte	analysis results	detection	limit	Analysis Method
1	pH(16°C)	8.0	-	Glass Electrode	27	Cyanide	0.001 less	0.001	less	Ion Chromatography
2	Turbidity	2.0	0.2 less	transmitted beam	28	Lead	0.001 less	0.001	less	ICP-MS
3	Color	16,5	0.5 less	transmitted beam	29	Mercury	0.00005 less	0.00005	less	Atomic absorption spectrophotometer
4	Alkalinity—OH	2 less	2 less	Titrimetry	30	Boron	0.1 less	0.1	less	ICP-MS
5	AlkalinityCO	2 less	2 less	Titrimetry	31	Brium	0.07 less	0.07	less	ICP-MS
6	Alkalinity—HCO	143	2 less	Titrimetry	32	Molybdenum	0.007 less	0.007	less	ICP-MS
7	Calcium	44,5	1 less	Atomic absorption spectrophotometer	33	Nickel Nickel	0.033	0.001	less	ICP-MS
8	Magnesium	5.2	1 less	Atomic absorption spectrophotometer	34	Flouride	0.15	0.08	less	Ion Chromatography
9	Total Hardness	133	1 less	Atomic absorption spectrophotometer			-blank-			
10	Li	0.35	-	_						
11	Potassium	3.1	0.1 less	Atomic absorption spectrophotometer						
12	Sodium	7.4	0.1 less	Atomic absorption spectrophotometer						
13	Chlorides	9.2	0.2 less	Ion Chromatography						
14	SO ₄ ²⁻	1.0 less	1.0 less	lon Chromatography	L					
15	TDS	214	1 less	gravimetric method	L					
16	NH ₄ -N	0.12	0.05 less	absorptiometry	L					
17	NO3-N	0.5 less	0.5 less	Ion Chromatography						
18	NO ₂ -N	0.5 less	0.5 less	Ion Chromatography						
19	Silica	73	2.0 less	absorptiometry						
20	Iron	0.53	0.01 less	Atomic absorption spectrophotometer	L					
21	Manganese	0.104	0.005 less	ICP-MS	L					
22	Arsenic	0.005	0.001 less	ICP-MS	L					
23	Selenium	0.001 less	0.001 less	ICP-MS	_					
24	Copper	0.01 less	0.01 less	ICP-MS						
25	<u>Caddmimum</u>	0.001 less	0.001 less	ICP-MS						
26	Chromium	0.005 less	0.005 less	ICP-MS						

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YACHIYO ENGINEERING Co, Ltd.

Report No. F11-2009-3621E
Date 2010/3/1



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Examination: The Master Plan Study on Urban Facilities Restoration and Improvement in Montovia in the Republic of Liberia (JICA Project)

Sam	ple name		J-11								
Anal	Analysis date 2010/2/3										
	analyte	analysis results	detection	limit	Analysis Method		analyte	analysis results	detection	linit	Analysis Method
1	pH(16°C)	8,1	-		Glass Electrode	27	Cyanide	0.001 less	0.001	less	Ion Chromatography
2	Turbidity	0.2 less	0.2	less	transmitted beam	28	Lead	0.001 less	0.001	less	ICP-MS
3	Color	1.2	0.5	less	transmitted beam	29	Mercury	0,00005 less	0.00005	less	Atomic absorption spectrophotometer
4	Alkalinity-OH	2 less	2	less	Titrimetry	30	Boron	0.1 less	0.1	less	ICP-MS
5	AlkalInIty-CO	2 less	2	iess	Titrimetry	31	Brium	0.07 less	0.07	less	ICP-MS
6	AlkalinIty-HCO	87	2	less	Titrimetry	32	Molybdenum	0.007 less	0.007	less	ICP-MS
7	Calcium	2	1	less	Atomic absorption	33	Nickel	0.003	0.001	less	ICP-MS
8	Magnesium	1	1	less	Atomic absorption	34	Flouride	0.18	0.08	less	Ion Chromatography
9	Total Hardness	10	1	less	Atomic absorption spectrophotometer			-blank-			
10	Li	-1,1	-		_						
11	Potassium	2.4	0,1	less	Atomic absorption spectrophotometer						
12	Sodium	1,9	0.1	less	Atomic absorption spectrophotometer						
13	Chlorides	3,6	0.2	less	Ion Chromatography						
14	SO ₄ ²⁻	1.0 less	1.0	less	Ion Chromatography						
15	TDS	169	1	less	gravimetric method						
16	NH ₄ -N	0.10	0.05	less	absorptiometry						
17	NO ₃ -N	0.5 less	0.5	iess	lon Chromatography						
18	NO ₂ -N	0.5 less	0.5	less	lon Chromatography						
19	Silica	65	2.0	less	absorptiometry						
20	Iron	0.08	0,01	less	Atomic absorption spectrophotometer						
21	Manganese	0.035	0.005	less	ICP-MS						
22	Arsenic	0.001 less	0,001	less	ICP-MS		. "-				
23	Selenium	0,001 less	0.001	less	ICP-MS						
24	Copper	0.01 less	0,01	less	ICP-MS						
25	Caddmimum	0,001 less	0.001	less	ICP-MS						
26	Chromium	0,005 less	0,005	less	ICP-MS						

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