Wastewater Quality Results

Date Collected	Camp name	Total Suspended Solids			Volatile Solids			Settleable Solids			BOD			COD				N				TC					
		Inlet	Outlet	Inefficiency	Inlet	Outlet	Inefficiency	Inlet	Outlet	Inefficiency	In	Out	Ineff	In	Out	Ineff		In	Out	Ineff	In	Out	Ineff				
12-13 Jan	Shekh Bahar-3	840	588	30	472	328	31				417	377	10	591	527	11	0.70										
27-28 Jan	Shekh Bahar-3	350	337	4	88	85	4	15	10	33	433	217	50	708	380	46	0.61	20	13	40	50	60	-20				
6-7 Feb	Shekh Bahar-3	117	116	0.9	66	50	24.2	60	55	8.3	160	145	9.4	496	398	19.8	0.31	58	56	3.4	80	83	-3.8	18.4	14.7	20.1	
23-24 Feb	Shekh Bahar-3	291	517	-77.7	215	340	-58.1	40	35	12.5	630	590	6.3	1560	1740	-11.5	0.40	58	54	6.9	69	74	-7.2	24.6	19.4	21.1	

Key	
High	>50%
Average	30-50%
Low	<30%

Demographics	
Population	1,750
Connected h/h	142
Water consumption Per. capita	40 l/d
Peak flow rate	1.3 m^3/hr
Off-peak flow rate	0m^3/hr
Septic tank Volume	118 m^3
Hydraulic retention time	9.2 hours
Effluent disposal	Soakaways

12-13 Jan	Kafr Nabl	481	438	10	180	115	36				325	297	9	681	448	34	0.48										
27-28 Jan	Kafr Nabl	383	414	10	190	256	34	40	28	30	471	416	12	902	473	48	0.52	21	18	14	70	60	14				
6-7 Feb	Kafr Nabl	321	307	4.4	118	176	44.7	65	70	-7.7	544	536	1.5	1532	1530	0.1	0.36	88	68	22.7	63	78	-23.8	17.4	20.0	-14.9	
23-24 Feb	Kafr Nabl	578	195	66.2	376	227	39.6	55	50	9.1	542	555	-2.4	2158	1940	9.8	0.25	52	46	11.5	86	92	-7.0	20.0	21.0	-5.0	

Demographics	
Population	890
Connected h/h	178
Water consumption Per. capita	40 l/d
Peak flow rate	0.9 m^3/hr
Off-peak flow rate	0m^3/hr
Septic tank Volume	137 m^3
Hydraulic retention time	21.7 hours
Effluent disposal	Soakaways

12-13 Jan	Kokneya	375	221	41	180	115	36				480	425	11	761	504	33	0.66										
27-28 Jan	Kokneya	482	270	44	310	88	72	30	15	50	562	422	25	1130	718	36	0.36	44	17	61	80	80	0				
6-7 Feb	Kokneya	426	236	44.5	188	140	25.7	100	85	15.0	543	487	10.3	980	604	38.4	0.50	76	68	10.5	75	70	6.7	15.0	22.2	-48.1	
23-24 Feb	Kokneya	722	532	26.3	492	312	36.6	65	55	15.4	681	534	21.7	2383	1747	26.7	0.30	92	80	13.0	80	75	6.1	30.0	24.2	19.3	

Demographics	
Population	1,516
Connected h/h	303
Water consumption Per. capita	40 l/d
Peak flow rate	1.5 m^3/hr
Off-peak flow rate	0m^3/hr
Septic tank Volume	118 m^3
Hydraulic retention time	18 hours
Effluent disposal	Soakaways

27-28 Jan	Kafr Takharim	387	241	38	140	118	16	80	20	75	581	516	11	1569	972	38	0.37	27	24	11	90	70	22				
6-7 Feb	Kafr Takharim	470	431	8.3	470	210	55.3	170	140	17.6	572	555	3.0	1820	955	47.5	0.31	88	76	13.6	95	81	15.0	25.0	22.0	8.0	
23-24 Feb	Kafr Takharim	890	638	28.3	481	364	24.3	180	50	72.2	870	630	27.6	2840	2160	23.9	0.31	64	60	6.3	95	90	5.3	36.0	32.0	11.1	

Demographics	
Population	1,750
Connected h/h	144
Water consumption Per. capita	40 l/d
Peak flow rate	1.2 m^3/hr
Off-peak flow rate	0m^3/hr
Septic tank Volume	145 m^3
Hydraulic retention time	14.4 hours
Effluent disposal	Soakaways

27-28 Jan	Mashhad Ruhin	511	153	70	317	61	81	50	37	26	502	386	23	1150	640	44	0.44	26	20	23	80	50	38		25.0	12.4	50.4
6-7 Feb	Mashhad Ruhin-a	481	299	37.8	272	211	21.8	60	40	33.3	430	347	19.3	743	511	28.1	0.57	59	50	15.3					25.0	12.4	50.4
23-24 Feb	Mashhad Ruhin-a	690	317	54.7	361	309	14.4	85	80	5.9	570	547	4.0	1894	1794	5.3	0.30	54	43	20.2	96	82	14.6	20.8	20.2	2.9	
6-7 Feb	Mashhad Ruhin-b	397	317	20.2	210	196	6.7	70	70	0.0	510	430	15.7	881	786	10.8	0.58	76	65	21.1	78	71	9.0	20.2	22.8	-12.9	
23-24 Feb	Mashhad Ruhin-b	501	485	7.7	298	282	5.4	90	75	16.7	671	566	15.6	2092	1932	7.6	0.32	56	48	14.3	77	69	10.4	22.8	22.8	0.0	

Demographics	
Population	2,320
Connected h/h	464
Water consumption Per. capita	40 l/d
Peak flow rate	1.6 m^3/hr
Off-peak flow rate	0m^3/hr
Septic tank Volume	165 m^3
Hydraulic retention time	8.64 hours
Effluent disposal	No outlet

27-28 Jan	Kelly	760	126	83	436	68	84	65	15	77	602	341	43	1550	550	65	0.39	29	21	28	60	60	0				
6-7 Feb	Kelly-a	353	46	87.0	156	0	100.0	90	70	22.2	568	87	84.7	1140	312	72.8	0.50	52	40	23.1	85	70	17.6	85.0	70.0	17.6	
23-24 Feb	Kelly-a	810	81	90.0	526	0	100.0	65	10	84.6	535	92	82.8	1328	318	76.2	0.40	58	52	10.3	88	39	56.7	23.6	14.5	38.6	
6-7 Feb	Kelly-b	488	306	37.3	246	168	31.7	70	50	28.6	545	541	0.7	1213	825	32.0	0.45	72	68	5.6	60	55	8.3	15.8	17.6	-11.4	
23-24 Feb	Kelly-b	830	305	63.7	476	188	60.5	55	50	9.1	712	538	24.4	2298	1470	36.0	0.31	54	50	7.4	86	70	18.6	24.4	22.4	8.2	

Demographics	
Population	2,125.00
Connected h/h	425
Water consumption Per. capita	35 l/d
Peak flow rate	1.4 m^3/hr
Off-peak flow rate	0 m^3/hr
Septic tank Volume	144 m^3
Hydraulic retention time	16.8 hours
Effluent disposal	No outlet

12-13 Jan	Shekh Bahar-2	875	357	59	420	205	51				358	180	50	534	266	50											

Demographics	
Population	
Connected h/h	
Water consumption Per. capita	
Peak flow rate	
Off-peak flow rate	
Septic tank Volume	
Hydraulic retention time	
Effluent disposal	

12-13 Jan	Tiba - Abyan	1010	975	3	650	512	21				906	816	11	1570	1514	4	0.58										
27-28 Jan	Tiba - Abyan	1050	910	13	700	646	8	75	50	33	544	387	29	1700	885	48	0.35	28	25	11	70	40	14	70	60	14	
6-7 Feb	Tiba - Abyan	542	444	18.1	344	258	25.0	55	30	45.5	611	530	13.3	1464	830	43.2	0.45	60	54	10.0	80	70	12.5	25	20.4	18.4	
23-24 Feb	Tiba - Abyan	920	872	5.2	320	540	-68.8	85	130	-52.9	604	870	-43.9	2050	3210	-56.6	0.30	35	54	54.3	70	102	45.7	25.2	22.4	5.6	

Demographics	
Population	3,162.00
Connected h/h	632
Water consumption Per. capita	35 l/d
Peak flow rate	2.6 m^3/hr
Off-peak flow rate	0.86 m^3/hr
Septic tank Volume	59 m^3
Hydraulic retention time	1.11 hours
Effluent disposal	Canal to river

12-13 Jan	Saeel	1350	950	30	890	510	43				1564	1152	26	563	520	8											
27-28 Jan	Saeel	780	570	27	415	380	8	65	48	26	583	412	29	1180	765	35		27	23	15	95	95	0				
6-7 Feb	Saeel	373	648	-73.7	250	386	-60.8	50	110	-120.0	581	620	-22.7	1193	785	34.2	0.49	53	60	-13.2	90	95	-5.6	19	22.4	-17.9	
23-24 Feb	Saeel	890	723	18.8	530	449	15.3	160	110	31.3	861	557	35.3	3100	1562	49.6	0.28	52	56	6.5	95	73	23.2	25	22	12.0	

Demographics	
Population	2,749.00
Connected h/h	550
Water consumption Per. capita	35 l/d
Peak flow rate	2.2 m^3/hr
Off-peak flow rate	0.76 m^3/hr
Septic tank Volume	50 m^3
Hydraulic retention time	5.92 hours
Effluent disposal	Canal to river

23-24 Feb	Al-Ges	572	541	5.4	345	319	7.5	35	35	0.0	609	556	8.7	1570	1530	2.5	0.38	56	52	7.1	96	85	11.5	34	32	5.9	

Demographics	
Population	3,380.00
Connected h/h	676
Water consumption Per. capita	35 l/d
Peak flow rate	1.2 m^3/hr
Off-peak flow rate	0 m^3/hr
Septic tank Volume	50 m^3
Hydraulic retention time	3.4 hours
Effluent disposal	Canal to river