

Zhejiang Rural Water Supply and Sanitation Project
Consolidated EIA Report
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Zhejiang Huanke Environmental Consulting Co., Ltd.

National EIP Certificate: Class A, No. 2003

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Attached table 2.2-1 Table of 2012 Water Quality Monitoring Result of Anji Fushi Reservoir

Sampling date	01-05	02-02	03-19	04-05	05-08	06-06	07-04	08-06	09-05	10-10	11-05	12-05
Water level (m)	74.66	76.22	78.98	79.01	75.52	77.3	75.14	74.38	78.37	75.08	73.10	73.70
Transparency (m)	1.70	1.65	1.30	1.63	1.00	1.50	1.70	1.76	1.56	1.65	1.10	1.20
Air temperature (°C)	-3.0	9.0	7.0	12.0	27.0	21.0	35.0	32.0	22.0	21.0	10.0	3.0
Water temperature (°C)	10.0	8.0	9.0	15.0	24.0	23.0	32.0	30.0	21.0	23.0	19.0	12.0
PH (zero dimension)	7.58	7.62	7.57	8.15	9.41	9.29	9.18	8.74	8.54	7.38	7.21	7.16
Dissolved oxygen	8.90	10.2	11.4	11.0	10.6	8.90	8.79	6.50	7.02	6.49	7.13	8.51
Permanganate index	2.00	1.91	1.42	1.86	2.66	2.69	2.47	2.21	3.27	2.07	1.84	1.74
BOD5	0.55	<0.50	0.80	1.27	2.08	0.98	1.24	0.83	1.58	<0.50	0.50	0.50
Ammonia nitrogen	0.053	0.027	0.053	0.026	0.026	0.050	0.452	0.076	0.290	0.042	0.209	0.317
Total phosphorus	0.014	0.013	0.019	0.025	0.019	0.025	0.017	0.016	0.018	0.029	0.017	0.010
Total nitrogen	1.74	1.13	1.97	1.56	1.63	1.72	2.26	1.87	3.34	1.75	1.24	1.30
Copper	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
Zinc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
Fluoride	0.15	0.20	0.12	0.11	0.13	0.13	0.11	0.19	0.16	0.13	0.14	0.10
Selenium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Arsenic	0.0005	0.0005	0.0004	0.0004	0.0004	0.0005	0.0008	0.0010	0.0009	0.0009	0.0005	0.0009
Mercury	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Cadmium	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
Chromium (Sexavalence)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0031	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
Cyanide	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004

Volatile phenol	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0004	<0.0003
Petroleum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Anionic surfactant	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Sulfate	18.2	6.71	14.4	9.46	9.37	<5.00	<5.00	<5.00	5.68	10.9	<5.00	5.57
Chloride	4.12	4.31	2.74	2.64	3.57	6.56	6.51	0.29	2.82	2.39	2.88	4.95
Nitrate nitrogen	0.61	0.69	1.27	1.43	0.69	0.69	0.38	0.58	0.55	0.69	0.67	0.59
Iron	0.04	0.03	0.04	0.07	<0.03	0.07	0.06	<0.03	0.03	0.06	0.22	0.11
Manganese	0.07	0.09	0.09	0.12	0.08	0.02	<0.01	<0.01	0.01	0.02	0.01	0.02
Chlorophyll a	0.00252	0.00186	0.00178	0.00286	0.05310	0.00839	0.00360	0.00915	0.00568	0.00309	0.00259	0.00258

Attached table 2.2-2 Table of 2012 Water Quality Monitoring Result of Anji Tianzigang Reservoir

Sampling date	01-05	02-02	03-19	04-05	05-08	06-06	07-04	08-06	09-05	210-10	11-05	12-05
Transparency (m)	1.20	1.60	1.40	1.60	1.40		1.70	1.80	1.60	1.82	1.60	1.20
Air temperature (°C)	0.0	4.0	15.0	18.0	26.0	25.0	32.0	34.0	29.0	25.0	19.0	10.0
Water temperature (°C)	5.0	3.0	10.0	13.0	24.0	23.0	30.0	29.0	28.0	22.0	17.0	11.0
PH(zero dimension)	7.86	7.75	7.25	7.77	8.11	7.84	7.80	7.64	7.37	7.83	7.05	7.62
Dissolved oxygen	11.0	10.2	9.99	9.70	8.30	8.76	7.81	6.98	6.65	9.02	7.02	8.88
COD _{Mn}	4.35	4.05	3.04	4.13	2.54	3.59	3.67	3.80	2.84	3.06	2.88	3.97
BOD ₅	3.07	2.59	1.25	2.05	<0.50	0.82	0.93	1.11	0.97	1.01	1.02	2.88
Ammonia nitrogen	0.288	0.375	0.118	0.115	0.071	0.259	0.130	0.061	0.317	0.139	0.135	0.356
Total phosphorus	0.043	0.026	0.039	0.063	0.011	0.025	0.029	0.036	0.027	0.035	0.039	0.045
Total nitrogen	3.02	1.60	2.32	1.91	1.28	2.60	1.76	2.13	3.53	1.46	1.37	0.89
Copper	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05
Zinc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		<0.05	<0.05	<0.05	<0.05
Fluoride	0.22	0.27	0.14	0.15	0.16	0.18	0.15	0.31	0.22	0.25	0.21	0.17
Selenium	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0005	<0.0003
Arsenic	0.0004	0.0004	0.0004	0.0004	0.0005	0.0007	0.0006	0.0009	0.0015	0.0011	0.0007	0.0010

Sampling date	01-05	02-02	03-19	04-05	05-08	06-06	07-04	08-06	09-05	210-10	11-05	12-05
Mercury	<0.0000 1	0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1	<0.0000 1
Cadmium	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
Sexavalence Chromium	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	0.0084	0.0083	<0.0025	<0.0025	0.0066	0.0038	<0.0025		0.0038	<0.0025	<0.0025	<0.0025
Cyanide	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Volatile phenol	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0005
Petroleum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Anionic surfactant	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Sulfate	17.8	8.12	24.9	10.1	9.76	8.35	12.0	<5.00	5.29	15.9	<5.00	7.09
Chloride	5.93	6.26	6.16	7.04	5.79	6.56	7.56	0.39	4.66	5.26	5.96	7.58
Nitrate nitrogen	0.19	0.34	1.07	1.13	0.80	0.75	0.62	0.43	0.64	0.36	0.18	2.45
Iron	0.26	0.05	0.13	0.10	0.11	0.15	0.09	0.14	0.12	0.09	0.17	0.16
Manganese	0.06	0.07	0.05	0.07	0.03	0.09	0.06	0.11	0.11	0.06	0.08	0.07
Chlorophyll a	0.00388	0.00299	0.00240	0.00379	0.00504	0.00348	0.00309	0.00405	0.00394	0.00788	0.00371	0.00356

Attached table 2.2-3 Annual Report of Monitoring Data of Ambient Air in East Anji County Unit: mg/m³

Time	SO ₂	NO ₂	PM ₁₀
January, 2012	0.025	0.032	0.092
February, 2012	0.019	0.021	0.093
March, 2012	0.022	0.022	0.092
April, 2012	0.018	0.029	0.099
May, 2012	0.019	0.015	0.081
June, 2012	0.011	0.010	0.077
July, 2012	0.018	0.029	0.067
August, 2012	0.022	0.024	0.064
September, 2012	0.019	0.014	0.068

October, 2012	0.024	0.017	0.085
November, 2012	0.022	0.019	0.097
December, 2012	0.016	0.042	0.089
Class II standard	0.15	0.08	0.15

Attached table 2.2-4 List of Acoustic Environment Monitoring and Statistical Result of Subprojects in Anji County

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
1	Anji Urban Sewage Disposal Plant	South entrance of boundary	54.4	Reach the standard	44.2	Reach the standard	60	50
		South by west of boundary	52.8	Reach the standard	41.4	Reach the standard	60	50
		West by south of boundary	53.5	Reach the standard	41.5	Reach the standard	60	50
		West by north of boundary	50.6	Reach the standard	42.1	Reach the standard	60	50
		North by west of boundary	52.0	Reach the standard	41.2	Reach the standard	60	50
		North by east of boundary	54.8	Reach the standard	43.0	Reach the standard	60	50
		East by north of boundary	54.3	Reach the standard	48.2	Reach the standard	60	50
		East by south of boundary	52.9	Reach the standard	47.0	Reach the standard	60	50
2	Banshan Water Plant	East of boundary	51.5	Reach the standard	45.7	Reach the standard	60	50
		South of boundary	49.4	Reach the standard	41.2	Reach the standard	60	50
		West of boundary	50.1	Reach the standard	46.3	Reach the standard	60	50

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
3	Gaoyu Water Plant	North of boundary	53.5	Reach the standard	47.2	Reach the standard	60	50
		East of boundary	48.5	Reach the standard	43.7	Reach the standard	60	50
		South of boundary	53.4	Reach the standard	47.2	Reach the standard	60	50
		West of boundary	45.1	Reach the standard	42.3	Reach the standard	60	50
4	Meixi Sewage Disposal Plant	North of boundary	44.5	Reach the standard	41.2	Reach the standard	60	50
		East of boundary	52.5	Reach the standard	48.7	Reach the standard	60	50
		South of boundary	47.4	Reach the standard	45.2	Reach the standard	60	50
		West of boundary	50.1	Reach the standard	46.7	Reach the standard	60	50
5	Water supply pump station of Gaoyu Water Plant	North of boundary	54.4	Reach the standard	48.2	Reach the standard	60	50
		East of boundary	43.1	Reach the standard	37.5	Reach the standard	55	45
		South of boundary	47.3	Reach the standard	41.1	Reach the standard	55	45
		West of boundary	46.9	Reach the standard	40.6	Reach the standard	55	45
6	2# sewage lift pump station	North of boundary	42.3	Reach the standard	38.4	Reach the standard	55	45
		East of boundary	42.8	Reach the standard	36.8	Reach the standard	55	45

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
		South of boundary	45.4	Reach the standard	38.6	Reach the standard	55	45
		West of boundary	44.5	Reach the standard	40.6	Reach the standard	55	45
		North of boundary	46.5	Reach the standard	39.2	Reach the standard	55	45
7	1# sewage lift pump station	East of boundary	46.9	Reach the standard	42.1	Reach the standard	55	45
		South of boundary	51.7	Reach the standard	43.6	Reach the standard	55	45
		West of boundary	44.8	Reach the standard	40.5	Reach the standard	55	45
		North of boundary	42.6	Reach the standard	37.8	Reach the standard	55	45
8	Subproject Water Pumping Station of Tianzihu Area	East of boundary	51.3	Reach the standard	42.6	Reach the standard	55	45
		South of boundary	52.6	Reach the standard	43.8	Reach the standard	55	45
		West of boundary	50.2	Reach the standard	42.3	Reach the standard	55	45
		North of boundary	49.8	Reach the standard	41.8	Reach the standard	55	45

Attached table 2.3-1 Current Situation Monitoring and Evaluation Result of Surface Water Quality of Subproject Site in Fuyang City (Unit: mg/l except for pH)

Location of the station Name	Sampling date		Project Name Property	pH value	CODMN	DO	NH3-N	Petroleum	LAS	BOD5	TN	TP	Volatile Phenol	Mercury	Fluoride
500m in the upstream of sewage draining exit of Longyang Sewage Disposal Plant	7.27	Morning	Clear	7.87	4.29	4.57	0.078	0.223	<0.05	4.18	1.69	0.012	<0.0001	0.001	0.057
		Afternoon	Clear	7.95	3.01	4.76	0.064	0.200	<0.05	2.93	1.47	<0.01	<0.0001	0.001	0.057
	7.28	Morning	Clear	7.83	3.97	4.51	0.070	0.211	<0.05	4.03	1.75	0.012	<0.0001	0.002	0.058
		Afternoon	Clear	7.98	2.85	4.97	0.058	0.199	<0.05	2.75	1.53	0.016	<0.0001	0.001	0.057
Confluence of Ge River and Yanshiling Reservoir	7.27	Morning	Clear	7.78	3.06	3.44	0.813	0.263	<0.05	2.70	2.50	0.077	0.0001	0.001	0.060
		Afternoon	Clear	7.69	5.00	3.50	0.795	0.250	<0.05	5.53	2.07	0.063	<0.0001	0.001	0.058
	7.28	Morning	Clear	7.68	4.37	3.07	0.595	0.252	<0.05	4.33	2.32	0.066	<0.0001	0.002	0.059
		Afternoon	Clear	7.58	4.92	3.05	0.618	0.238	<0.05	4.65	1.97	0.088	<0.0001	0.002	0.060
500m in the upstream of sewage draining exit of Xindeng Sewage Disposal Plant	July 27	Morning	Clear	7.85	3.07	/	0.373	0.363	<0.05	2.68	1.87	0.048	0.002	<0.0001	/
		Afternoon	Clear	7.84	3.14	/	0.384	0.326	<0.05	3.25	2.03	0.027	0.002	<0.0001	/
	July 28	Morning	Clear	7.76	3.26	/	0.424	0.340	<0.05	2.98	2.13	0.045	0.001	<0.0001	/
		Afternoon	Clear	7.77	3.42	/	0.407	0.314	<0.05	3.10	2.06	0.016	0.002	<0.0001	/
Confluence of Song River and Luzhu River	July 27	Morning	Clear	7.31	3.03	/	1.38	0.243	<0.05	3.23	2.51	0.139	<0.001	<0.0001	/
		Afternoon	Clear	7.21	3.66	/	1.38	0.218	<0.05	3.63	2.73	0.153	<0.001	<0.0001	/
	July 28	Morning	Clear	7.23	3.74	/	1.40	0.226	<0.05	3.63	2.57	0.128	<0.001	<0.0001	/
		Afternoon	Clear	7.19	3.42	/	1.40	0.213	<0.05	3.20	2.22	0.116	<0.001	<0.0001	/
Confluence of Xinpu River and Luzhu River	July 27	Morning	Clear	7.61	1.84	/	0.184	0.321	<0.05	2.03	4.51	<0.01	<0.001	<0.0001	/
		Afternoon	Clear	7.80	1.84	/	<0.025	0.309	<0.05	2.00	2.24	<0.01	<0.001	<0.0001	/
	July 28	Morning	Clear	7.74	1.68	/	<0.025	0.270	<0.05	1.88	3.62	0.027	<0.001	<0.0001	/
		Afternoon	Clear	7.49	1.37	/	0.144	0.300	<0.05	1.83	2.80	0.019	<0.001	<0.0001	/
Song River section	July 27	Morning	Clear	7.71	4.37	/	0.304	0.383	<0.05	4.30	1.82	0.027	0.002	<0.0001	/
		Afternoon	Clear	7.67	4.69	/	0.315	0.372	<0.05	4.43	1.80	0.016	0.001	<0.0001	/
	July 28	Morning	Clear	7.65	4.53	/	0.327	0.346	<0.05	4.48	2.42	0.027	0.002	<0.0001	/
		Afternoon	Clear	7.67	4.69	/	0.315	0.352	<0.05	4.90	1.76	0.019	0.002	<0.0001	/
500m in the upstream of sewage draining exit of Dayuan Sewage	July 27	Morning	Muddy	7.12	11.7	1.57	5.50	0.332	0.051	12.1	8.64	0.259	0.017	<0.0001	0.259
		Afternoon	Muddy	7.12	10.2	0.97	5.30	0.312	0.053	10.7	8.00	0.277	0.015	<0.0001	0.264
	July 28	Morning	Muddy	7.16	11.0	1.11	5.27	0.313	0.054	11.1	9.12	0.223	0.015	<0.0001	0.271
		Afternoon	Muddy	7.16	10.8	0.92	5.04	0.310	0.052	11.2	9.24	0.277	0.016	<0.0001	0.284

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Location of the station Name	Sampling date		Project Name Property	pH value	CODMN	DO	NH3-N	Petroleum	LAS	BOD5	TN	TP	Volatile Phenol	Mercury	Fluoride
Disposal Plant															
Sewage draining exit of Dayuan Sewage Disposal Plant	July 27	Morning	Muddy	7.29	11.8	0.85	3.33	0.282	0.151	9.30	8.40	0.295	0.064	<0.0001	0.210
		Afternoon	Muddy	7.22	12.5	0.64	3.61	0.238	0.156	9.45	8.22	0.332	0.066	<0.0001	0.200
	July 28	Morning	Muddy	7.31	11.0	0.76	3.38	0.251	0.146	9.15	8.76	0.314	0.070	<0.0001	0.194
		Afternoon	Muddy	7.28	12.0	0.47	3.50	0.249	0.150	9.95	8.52	0.350	0.071	<0.0001	0.197
Connecting section of Qiantang 214 and 215	July 27	Morning	Muddy	7.42	2.66	3.97	0.098	0.301	<0.05	2.25	1.91	0.092	0.001	<0.0001	0.104
		Afternoon	Muddy	7.19	3.33	4.00	0.103	0.265	<0.05	3.23	1.62	0.081	0.001	<0.0001	0.094
	July 28	Morning	Muddy	7.23	2.96	4.01	0.107	0.288	<0.05	2.95	2.03	0.088	0.002	<0.0001	0.089
		Afternoon	Muddy	7.22	2.89	3.61	0.110	0.251	<0.05	3.15	2.06	0.095	0.001	<0.0001	0.074
Dayuan River section	July 27	Morning	Muddy	7.95	3.91	4.45	0.093	0.222	<0.05	3.73	0.788	0.037	0.002	<0.0001	0.052
		Afternoon	Muddy	8.03	4.21	4.50	0.103	0.195	<0.05	4.40	0.610	0.034	0.001	<0.0001	0.052
	July 28	Morning	Muddy	7.91	4.43	4.60	0.081	0.200	<0.05	4.48	0.943	0.041	0.002	<0.0001	0.053
		Afternoon	Muddy	7.87	3.75	4.79	0.075	0.189	<0.05	3.58	0.562	0.023	0.002	<0.0001	0.060
Confluence of Nanxin River and Ge River	July 27	Morning	Clear	7.92	1.50	/	0.035	0.395	<0.05	1.80	1.86	<0.01	<0.001	/	/
		Afternoon	Clear	7.84	1.12	/	0.030	0.375	<0.05	1.00	1.56	0.012	<0.001	/	/
	July 28	Morning	Clear	7.96	1.39	/	<0.025	0.377	<0.05	1.20	1.75	0.034	<0.001	/	/
		Afternoon	Clear	7.93	1.39	/	<0.025	0.375	<0.05	1.25	1.60	0.030	<0.001	/	/
500m in the upstream of sewage draining exit of sewage disposal station in Hongzhuang Village in Yinhu Street	July 27	Morning	Clear	7.65	1.27	/	<0.025	0.114	<0.05	1.08	1.63	0.023	<0.001	/	/
		Afternoon	Clear	7.75	1.47	/	<0.025	0.126	<0.05	1.36	1.44	0.027	<0.001	/	/
	July 28	Morning	Clear	7.63	1.27	/	<0.025	0.141	<0.05	1.22	1.60	0.034	<0.001	/	/
		Afternoon	Clear	7.74	1.43	/	<0.025	0.145	<0.05	1.43	1.54	0.037	<0.001	/	/
500m in the upstream of sewage draining exit of sewage disposal station in Yankou Village of Dayuan Town	July 27	Morning	Clear	8.67	2.43	/	0.075	0.251	<0.05	2.40	0.955	0.019	<0.001	/	/
		Afternoon	Clear	8.84	2.56	/	0.053	0.239	<0.05	2.75	0.990	0.048	<0.001	/	/
	July 28	Morning	Clear	8.77	2.33	/	0.064	0.250	<0.05	2.80	0.979	0.059	<0.001	/	/
		Afternoon	Clear	8.74	2.69	/	0.064	0.226	<0.05	3.03	1.00	0.052	<0.001	/	/
Confluence of	July	Morning	Clear	7.23	3.25	/	0.670	0.157	<0.05	2.95	3.50	0.081	<0.001	/	/

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Location of the station Name	Sampling date		Project Name Property	pH value	CODMN	DO	NH3-N	Petroleum	LAS	BOD5	TN	TP	Volatile Phenol	Mercury	Fluoride
Dayuan River and Fuchun River	27	Afternoon	Clear	7.24	2.53	/	0.521	0.152	<0.05	2.48	2.79	0.070	<0.001	/	/
	July 28	Morning	Clear	7.14	2.87	/	0.641	0.158	<0.05	3.40	3.49	0.077	<0.001	/	/
		Afternoon	Clear	7.21	2.57	/	0.544	0.139	<0.05	2.83	2.85	0.063	<0.001	/	/

Attached table 2.3-2 Monitoring Result of Normal Section of Fuchun River Unit: mg/L (zero dimension for pH, / L for fecal coliform)

Name of section	Year	Month	Ammonia nitrogen	Fecal Coliform	Permanganate Index	Chemistry Oxygen demand	Dissolved oxygen	Biochemistry Oxygen demand	Total phosphorus
Water-gate section	2010	1	0.500	407	3.11	5.00	7.36	1.00	0.058
		2	0.490	8633	2.82	5.98	8.08	1.39	0.177
		3	0.352	32100	2.34	5.00	8.39	1.82	0.099
		4	0.333	19333	1.84	6.85	7.77	1.29	0.094
		5	0.292	3517	2.10	14.98	6.93	0.87	0.079
		6	0.409	827	2.09	8.40	6.89	1.63	0.066
		7	0.455	47667	2.74	5.00	6.27	1.90	0.096
		8	0.136	3275	1.93	5.00	6.19	1.17	0.060
		9	0.015	3900	3.89	7.87	6.35	2.86	0.096
		10	0.034	13833	3.76	12.82	6.48	1.25	0.073
		11	0.221	4083	3.43	5.00	6.06	1.02	0.096
		12	0.440	4467	2.74	5.00	6.51	2.33	0.066
	2011	1	0.428	7300	2.80	11.65	7.27	1.10	0.095
		2	0.460	628	2.13	5.00	9.36	1.00	0.078
		3	0.442	726	2.55	5.00	8.25	1.42	0.060
		4	0.485	1040	2.57	5.00	7.68	2.17	0.056
		5	0.486	990	3.40	12.15	7.44	2.63	0.085
		6	0.181	363	3.69	5.00	6.47	2.83	0.096
		7	0.362	12167	2.82	5.00	6.38	0.54	0.097
		8	0.203	11967	3.62	9.43	6.10	1.60	0.097
		9	0.217	667	2.61	11.72	6.30	1.53	0.037
		10	0.159	1950	3.03	11.65	6.23	1.15	0.083
		11	0.234	827	2.29	5.92	6.07	1.40	0.088
		12	0.372	1425	3.70	7.32	6.10	2.15	0.091
2012	1	0.486	2267	2.33	6.07	7.06	1.38	0.078	
	2	0.489	1192	2.83	5.88	8.85	1.22	0.097	

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Name of section	Year	Month	Ammonia nitrogen	Fecal Coliform	Permanganate Index	Chemistry Oxygen demand	Dissolved oxygen	Biochemistry Oxygen demand	Total phosphorus		
		3	0.489	4767	2.21	5.00	6.86	1.02	0.098		
		4	0.278	7300	1.88	5.00	8.05	1.12	0.080		
		5	0.358	7617	2.18	5.00	6.41	2.30	0.094		
		6	0.321	5217	2.23	5.00	6.06	1.77	0.095		
		7	0.158	7300	2.81	11.72	6.25	1.97	0.095		
		8	0.045	712	3.55	10.33	6.48	2.65	0.097		
		9	0.238	4567	1.16	11.95	6.33	1.02	0.063		
		10	0.325	2482	1.65	14.73	6.75	2.95	0.098		
		11	0.165	498	1.93	9.37	6.12	0.77	0.097		
		12	0.488	7083	3.44	9.00	6.26	0.77	0.094		
		Narrow river section	2010	1	0.37	9200	2.79	/	9.54	1.56	0.1060
				3	0.80	9200	3.42	/	9.82	2.69	0.1020
5	0.59			9200	2.43	/	7.21	2.01	0.1320		
7	0.27			2200	2.49	/	7.24	2.07	0.0730		
9	0.16			2200	3.76	/	5.61	2.94	0.1150		
11	0.14			2200	3.56	/	8.02	2.83	0.1130		
2011	1		0.44	2200	3.29	/	8.90	2.40	0.1280		
	3		0.46	5400	2.93	/	9.55	2.58	0.1650		
	5		0.18	9200	2.93	/	6.80	2.61	0.1060		
	7		0.37	5400	2.87	/	6.89	2.28	0.1020		
	9		0.24	2200	2.22	/	6.86	2.00	0.0720		
	11		0.36	5400	2.41	/	6.86	1.80	0.0830		
2012	1		0.52	5400	2.98	/	8.55	2.39	0.0780		
	2		0.34	5400	3.05	/	8.93	2.59	0.0740		
	3		0.50	2800	2.67	/	11.25	2.51	0.0690		
	4		0.43	2200	2.54	/	8.08	2.04	0.0880		
	5		0.67	2800	2.47	/	7.90	2.06	0.1180		
	6		0.50	5400	2.42	/	7.62	2.12	0.0920		
	7		0.46	5400	2.75	/	6.34	2.21	0.0850		
	8	0.47	5400	2.51	/	5.92	1.94	0.0870			
	9	0.44	2800	2.45	/	6.05	2.05	0.0900			
	10	0.41	3500	3.24	/	7.12	2.86	0.0940			
	11	0.98	2800	2.94	/	7.55	2.30	0.0960			

Zhejiang Rural Water Supply and Sanitation Project Consolidated EIA report(attached table)

Name of section	Year	Month	Ammonia nitrogen	Fecal Coliform	Permanganate Index	Chemistry Oxygen demand	Dissolved oxygen	Biochemistry Oxygen demand	Total phosphorus
		12	0.63	3500	3.65	/	8.12	2.41	0.1340
Fuyang section	2010	1	0.37	1800	3.19	/	8.63	2.07	0.0985
		2	0.72	1800	2.74	/	8.23	2.12	0.1900
		3	0.37	1800	2.42	/	8.61	2.05	0.0958
		4	0.48	1800	2.60	/	8.08	1.87	0.0680
		5	0.49	1800	2.86	/	8.05	1.97	0.0908
		6	0.25	1800	2.26	/	8.15	2.07	0.0970
		7	0.49	1800	2.71	/	6.04	2.07	0.0788
		8	0.19	1800	2.92	/	7.41	2.86	0.0690
		9	0.34	1800	2.78	/	6.04	2.21	0.0885
		10	0.35	1800	2.85	/	5.85	2.06	0.0950
		11	0.29	1800	2.86	/	7.15	2.15	0.0920
		12	0.41	1800	2.45	/	6.94	1.92	0.0950
	2011	1	0.46	1800	2.72	/	9.61	1.86	0.0983
		2	0.22	1800	2.15	/	8.53	1.74	0.0810
		3	0.45	1800	2.56	/	9.90	2.03	0.0953
		4	0.61	1800	2.76	/	5.78	2.14	0.0610
		5	0.47	1800	2.73	/	6.03	2.24	0.0948
		6	0.47	2800	2.88	/	6.05	2.14	0.0950
		7	0.25	1800	2.43	/	8.13	2.05	0.0848
		8	0.35	2800	2.42	/	6.01	1.93	0.0950
		9	0.21	2050	2.38	/	6.37	1.96	0.0693
		10	0.22	3500	2.68	/	6.09	2.13	0.0880
		11	0.20	2700	2.42	/	6.22	1.78	0.0855
		12	0.38	940	2.69	/	6.60	2.04	0.0970
	2012	1	0.24	1800	2.38	/	8.69	2.02	0.0753
		2	0.49	1400	3.42	/	9.88	2.82	0.0968
		3	0.44	1800	2.65	/	11.11	2.17	0.0968
		4	0.30	1800	2.41	/	8.59	2.02	0.0968
		5	0.30	1800	2.71	/	7.08	2.13	0.0683
		6	0.21	1800	2.43	/	7.26	2.12	0.0883
		7	0.29	1800	2.96	/	6.59	2.28	0.0798
		8	0.20	1800	2.95	/	6.01	2.26	0.0860

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Name of section	Year	Month	Ammonia nitrogen	Fecal Coliform	Permanganate Index	Chemistry Oxygen demand	Dissolved oxygen	Biochemistry Oxygen demand	Total phosphorus
		9	0.07	1800	2.51	/	6.33	1.92	0.0868
		10	0.23	1800	3.17	/	6.08	2.69	0.0870
		11	0.10	1800	2.92	/	6.02	2.32	0.0940
		12	0.47	1800	3.15	/	6.33	2.21	0.0885
Qing River estuary Section	2010	1	0.20	5400	2.54	/	11.03	1.79	0.0620
		3	0.30	5400	2.10	/	10.65	1.87	0.0500
		5	0.59	5400	2.33	/	7.69	1.71	0.0710
		7	0.22	5400	2.50	/	7.63	1.84	0.0460
		9	0.17	5400	2.18	/	6.30	1.69	0.0720
		11	0.35	9200	2.23	/	8.78	1.74	0.0870
	2011	1	0.49	2200	2.83	/	11.50	2.08	0.0690
		3	0.49	2200	2.83	/	10.24	2.23	0.0760
		5	1.00	2200	2.86	/	7.15	2.33	0.0690
		7	0.31	5400	2.26	/	6.66	1.72	0.0670
		9	0.50	5400	2.00	/	8.17	1.75	0.0560
		11	0.96	5400	2.69	/	6.53	2.25	0.0670
	2012	1	0.70	5400	1.70	/	9.85	1.44	0.0720
		2	0.20	5400	1.62	/	10.05	1.34	0.0610
		3	0.23	5400	2.67	/	11.96	2.12	0.0630
		4	0.45	5400	1.85	/	9.35	1.69	0.0750
		5	0.33	5400	2.28	/	8.82	1.75	0.0580
		6	0.19	5400	2.06	/	8.55	1.92	0.0740
		7	0.30	5400	2.85	/	6.97	2.11	0.0720
		8	0.36	2200	3.14	/	6.40	2.37	0.0660
		9	0.31	5400	2.67	/	6.52	2.07	0.0730
		10	0.36	2200	3.09	/	9.27	2.31	0.0870
		11	0.25	5200	2.64	/	7.03	2.17	0.0490
		12	0.12	2200	3.18	/	9.85	2.51	0.0710
Lingqiao section	2010	1	1.93	9200	5.82	/	7.11	4.23	0.1090
		3	1.08	9200	5.80	/	8.54	4.63	0.1230
		5	0.58	9200	5.58	/	6.61	4.16	0.1320
		7	1.42	9200	5.69	/	5.13	3.91	0.1840
		9	1.47	9200	5.78	/	3.75	4.21	0.1540

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Name of section	Year	Month	Ammonia nitrogen	Fecal Coliform	Permanganate Index	Chemistry Oxygen demand	Dissolved oxygen	Biochemistry Oxygen demand	Total phosphorus
	2011	11	0.31	5400	5.19	/	4.38	3.89	0.2070
		1	0.97	5400	7.31	/	7.01	4.03	0.1790
		3	1.47	5400	7.68	/	3.05	5.21	0.2810
		5	1.49	9200	9.02	/	3.02	5.83	0.2460
		7	1.11	9200	4.98	/	4.80	3.96	0.0900
		9	1.34	9200	5.22	/	3.12	4.75	0.1320
		11	1.49	16000	9.70	/	3.53	5.77	0.1560
	2012	1	1.48	9200	7.62	/	3.87	5.41	0.2940
		3	1.48	9200	9.31	/	8.22	5.61	0.2440
		5	1.43	9200	8.43	/	3.65	5.07	0.1070
		7	1.41	5400	7.77	/	3.21	4.93	0.1880
		9	1.07	5400	8.87	/	3.05	5.74	0.1200
		11	0.76	9200	2.57	/	5.01	3.87	0.1230
	Zhongbu section	2010	1	0.39	2200	3.90	/	9.93	2.87
3			0.24	2200	2.76	/	10.14	2.36	0.1050
5			0.46	5400	3.34	/	8.43	2.77	0.1010
7			0.35	5400	3.01	/	6.80	2.43	0.0480
9			0.68	5400	3.01	/	9.05	2.28	0.0770
11			0.50	1800	3.18	/	8.36	2.56	0.0900
2011		1	0.47	1700	3.56	/	5.37	2.40	0.0730
		3	0.24	2200	2.83	/	10.44	2.14	0.0860
		5	1.00	2800	3.19	/	7.63	2.78	0.0780
		7	0.33	5400	3.79	/	5.56	3.05	0.0670
		9	0.22	5400	2.20	/	8.47	1.87	0.0730
		11	0.89	5400	4.57	/	7.16	3.41	0.0790
2012		1	0.55	5400	5.37	/	7.49	3.81	0.0800
		3	0.44	3500	2.08	/	11.50	1.92	0.0700
		5	0.20	3500	2.28	/	8.86	1.84	0.0560
		7	0.41	5400	2.94	/	6.77	2.36	0.0680
		9	0.42	5400	2.89	/	5.78	2.39	0.0700
		11	0.97	3500	2.80	/	6.38	2.37	0.0720

Attached table 2.3-3 List of Acoustic Environment Monitoring and Statistical Result of Subproject Sites in Fuyang City

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
1	Longyang Sewage Disposal Plant	East of boundary	55.6	Exceeding standard 1.6dB	44.7	Reach the standard	55	45
		South of boundary	51.2	Reach the standard	45.8	Exceeding standard 0.8dB	55	45
		West of boundary	55.4	Exceeding standard 0.4dB	46.7	Exceeding standard 1.7dB	55	45
		North of boundary	52.7	Reach the standard	46.9	Exceeding standard 1.9dB	55	45
2	Renovation engineering project of water supply and drainage pipe network of Xindeng Zhenji Town of Fuyang City	East of boundary	53.4	Reach the standard	45.2	Reach the standard	60	50
		South of boundary	54.9	Reach the standard	45.9	Reach the standard	60	50
		West of boundary	56.7	Reach the standard	44.7	Reach the standard	60	50
		North of boundary	54.1	Reach the standard	46.8	Reach the standard	60	50
		Shuangta Village	55.8	Reach the standard	45.5	Reach the standard	60	50
3	Fuyang Sewage Disposal Plant Project phase IV	East of boundary	54.9	Reach the standard	44.9	Reach the standard	60	50
		South of boundary	53.1	Reach the standard	45.2	Reach the standard	70	55
		West of boundary	55.8	Reach the standard	45.5	Reach the standard	60	50
		North of boundary	53.5	Reach the standard	44.7	Reach the standard	60	50
4	Renovation	Dayuan Village	53.9	Reach the	45.3	Reach the	60	50

Serial No.	Subproject Name	Location of measuring point		Monitoring Results				Evaluation criterion	
				Daytime		Night		Daytime	Night
				Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
	engineering project of water supply and drainage pipe network of Dayuan Zhenji Town of Fuyang City				standard		standard		
		Tingshan Village		52.1	Reach the standard	44.8	Reach the standard	60	50
5	Demonstration system of sewage disposal of decentralized villages of Fuyang City	Hongzhuang Village, Yinhu Subdistrict		54.1	Reach the standard	43.2	Reach the standard	60	50
		Pengjia Village in Wanshi Town		53.2	Reach the standard	43.3	Reach the standard	60	50
		Yankou Village in Dayuan Town		55.9	Reach the standard	46.4	Reach the standard	60	50
		Sewage disposal station in Hongzhuang Village	East of boundary	53.7	Reach the standard	46.6	Reach the standard	60	50
			South of boundary	55.3	Reach the standard	44.8	Reach the standard	60	50
			West of boundary	53.7	Reach the standard	45.5	Reach the standard	60	50
			North of boundary	55.6	Reach the standard	46.7	Reach the standard	60	50
		Sewage disposal Station	East of boundary	52.6	Reach the standard	46.0	Reach the standard	60	50
			South of boundary	54.5	Reach the standard	43.7	Reach the standard	60	50
			West of	52.2	Reach the	44.7	Reach the	60	50

Serial No.	Subproject Name	Location of measuring point		Monitoring Results				Evaluation criterion	
				Daytime		Night		Daytime	Night
				Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
	n in Pengjia Village Sewage disposal station in Yankou Village	boundary		standard		standard			
		North of boundary	52.7	Reach the standard	46.9	Reach the standard	60	50	
		East of boundary	55.6	Reach the standard	43.5	Reach the standard	60	50	
		South of boundary	54.3	Reach the standard	44.1	Reach the standard	60	50	
		West of boundary	53.0	Reach the standard	44.1	Reach the standard	60	50	
		North of boundary	55.6	Reach the standard	43.8	Reach the standard	60	50	
6	Demonstration project of sewage interception pipeline for rural sewage of Fuyang City	Qiufeng Village in Fuchun Street	52.8	Reach the standard	44.3	Reach the standard	60	50	
		Sanqiao Village in Fuchun Street	53.7	Reach the standard	46.2	Reach the standard	60	50	
		Huanggongwang Village in Dongzhou Street	54.3	Reach the standard	45.3	Reach the standard	60	50	
		Jilongshan Village in Dongzhou Street	51.9	Reach the standard	45.6	Reach the standard	60	50	
		Gaoqiao Village in Yinhu Street	51.1	Reach the standard	44.9	Reach the standard	60	50	
		Shouxiang Village in Yinhu Street	54.0	Reach the standard	45.2	Reach the standard	60	50	

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
		Xinchang Village in Yinhu Street	55.1	Reach the standard	45.7	Reach the standard	60	50
		Dongqiao Village in Dongqiao Town	55.2	Reach the standard	44.5	Reach the standard	60	50

Attached table 2.3-4 Current Situation Monitoring Result of Groundwater Environment of Subprojects in Fuyang City (Unit: mg/L except for pH)

Name of Station	pH value	CODcr	NH3-N	Petroleum	LAS	BOD5	TN	TP	Hg	As	Pb	Cd	Zn	Cu	Chromium (Sexavalence)	Fecal Coliform
Dayuan Sewage Disposal Plant 500m in the upstream of the project	6.89	15.2	0.227	<0.04	<0.05	1.85	4.32	0.201	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	16000
Dayuan Sewage Disposal Plant Project site	6.90	16.3	0.284	<0.04	<0.05	2.01	4.64	0.235	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	16000
Dayuan Sewage Disposal Plant 500m in the downstream of the project	6.85	16.8	0.244	<0.04	<0.05	2.20	4.80	0.228	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	16000
Sewage disposal station in Hongzhuang Village 500m in the upstream	6.55	<10	0.053	0.093	<0.05	1.50	4.61	0.156	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	220
Sewage disposal station in Hongzhuang Village	6.52	12.3	0.407	0.101	<0.05	1.83	4.34	0.203	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	9200
Sewage disposal station in Hongzhuang Village 500m in the downstream	6.51	<10	0.087	0.127	<0.05	1.62	4.38	0.171	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	170
Sewage disposal Station in Pengjia Village 500m in the upstream	7.53	20.0	0.357	0.213	<0.05	5.55	2.45	0.097	<0.0001	<0.0003	<0.005	<0.001	0.07	<0.05	<0.004	16000
Sewage disposal Station in Pengjia Village	6.95	<10	<0.025	0.212	<0.05	1.25	1.94	0.034	<0.0001	<0.0003	<0.005	<0.001	0.30	<0.05	<0.004	<20
Sewage disposal Station in Pengjia Village 500m in the downstream	7.28	<10	<0.025	0.218	<0.05	1.05	2.94	0.045	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	<20
Sewage disposal station in Yankou Village 500m in the upstream	6.94	<10	<0.025	0.212	<0.05	1.63	1.15	0.034	<0.0001	<0.0003	<0.005	<0.001	0.154	<0.05	<0.004	<20
Sewage disposal station in Yankou Village	7.57	24.6	0.379	0.218	<0.05	6.10	3.80	0.115	<0.0001	<0.0003	<0.005	<0.001	0.09	<0.05	<0.004	16000
Sewage disposal station in Yankou Village 500m in the downstream	7.51	23.8	0.482	0.229	<0.05	5.14	2.55	0.214	<0.0001	<0.0003	<0.005	<0.001	0.124	<0.05	<0.004	16000

Name of Station	pH value	CODcr	NH3-N	Petroleum	LAS	BOD5	TN	TP	Hg	As	Pb	Cd	Zn	Cu	Chromium (Sexavalence)	Fecal Coliform
500m in the upstream of Dongqiao Village	7.50	/	<0.025	/	<0.05	/	/	/	<0.0001	<0.0003	<0.005	<0.001	0.236	<0.05	<0.004	/
The location of Dongqiao Village	7.51	/	<0.025	/	<0.05	/	/	/	<0.0001	<0.0003	<0.005	<0.001	0.376	<0.05	<0.004	/
500m in the downstream of Dongqiao Village	7.53	/	<0.025	/	<0.05	/	/	/	<0.0001	<0.0003	<0.005	<0.001	0.335	<0.05	<0.004	/
Xindeng Sewage Disposal Plant 500m in the upstream of the project	6.22	<10	<0.025	0.162	<0.05	1.50	3.00	0.052	<0.0001	<0.0003	<0.005	<0.001	<0.05	0.394	<0.004	<20
Xindeng Sewage Disposal Plant Project site	6.42	<10	<0.025	0.152	<0.05	1.60	2.79	0.059	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	<20
Xindeng Sewage Disposal Plant 500m in the downstream of the project	6.19	<10	<0.025	0.165	<0.05	1.43	2.98	0.052	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	<20
Longyang Sewage Disposal Plant 500m in the upstream of the project	7.50	/	<0.025	/	<0.05	/	/	/	<0.0001	<0.0003	<0.005	<0.001	0.236	<0.05	<0.004	/
Longyang Sewage Disposal Plant Project site	7.51	/	<0.025	/	<0.05	/	/	/	<0.0001	<0.0003	<0.005	<0.001	0.376	<0.05	<0.004	/
Longyang Sewage Disposal Plant 500m in the downstream of the project	7.53	/	<0.025	/	<0.05	/	/	/	<0.0001	<0.0003	<0.005	<0.001	0.335	<0.05	<0.004	/

Attached table 2.4-1 Monitoring and Evaluation Result of Air Environment Quality in Tiantai County (Unit: mg/m³)

Monitoring location	Test time	SO ₂	NO ₂	PM ₁₀
Experimental Middle School in Tiantai County	02:00, July 27, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 28, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 29, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 30, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 31, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, August 1, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, August 2, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
Environmental Protection Mansion in Tiantai County	02:00, July 27, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001

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Monitoring location	Test time	SO2	NO2	PM10
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 28, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 29, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 30, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, July 31, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, August 1, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001
	02:00, August 2, 2013	<0.01	<0.001	<0.001
	08:00	<0.01	<0.001	<0.001
	14:00	<0.01	<0.001	<0.001
	20:00	<0.01	<0.001	<0.001

Attached table 2.4-2 Current Situation Monitoring Result of Environmental Noise of Tiantai Cangshan Sewage Disposal Plant

Measuring point		Daytime			Night		
No.	Location	Daytime	Standards	Over-standard value	Night	Standards	Over-standard value
1	East boundary of	51.4	55	0	43.7	45	0
2	South boundary of	50.9		0	42.9		0
3	West boundary of	50.1		0	41.1		0
4	North boundary of	51.5		0	40.2		0

Attached table 2.4-3 Current Situation Monitoring Result of Groundwater Environment of Tiantai County (Unit: mg/L except for pH)

Name of Station	Sampling date	Project Name Sample Property description	pH value	CODcr	NH3-N	Petroleum	LAS	BOD5	TN	TP
500m in the upstream of Cangshan Sewage Disposal Plant Project	July 28	Clear	6.22	<10	<0.025	0.162	<0.05	1.50	3.00	0.052
Project Site of Cangshan Sewage Disposal Plant		Clear	6.42	<10	<0.025	0.152	<0.05	1.60	2.79	0.059
500m in the downstream of the project		Clear	6.19	<10	<0.025	0.165	<0.05	1.43	2.98	0.052
Name of Station	Hg	As	Pb	Cd	Zn	Cu	Chromium (Sexavalence)		Fecal Coliform	
500m in the upstream of Cangshan Sewage Disposal Plant Project	<0.0001	<0.0003	<0.005	<0.001	<0.05	0.394	<0.004	<20		

Project Site of Cangshan Sewage Disposal Plant	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	<20
500m in the downstream of the project	<0.0001	<0.0003	<0.005	<0.001	<0.05	<0.05	<0.004	<20

Attached table 2.5-1 List of Monitoring Result of Surface Water Quality of Subprojects in Longquan City (2012) (Unit:mg/L except for pH)

Water Body	Section	Monitoring time	pH	CODMn	NH3-N	TP	Category
Longquan Stream	Lanju--Jianchi	January	6.96	1.53	0.218	0.061	II
		March	7.17	2.77	0.143	0.045	II
		May	7.34	2.20	0.195	0.069	II
		July	6.72	1.62	0.206	0.046	II
		September	7.43	2.48	0.101	0.015	II
		November	7.35	3.28	0.173	0.036	II
	Nanqin Bridge	January	7.47	2.63	0.716	0.053	III
		March	7.42	2.32	0.103	0.046	III
		May	7.22	2.04	0.309	0.058	III
		July	7.89	2.16	0.121	0.060	III
		September	7.36	1.98	0.135	0.036	III
		November	7.36	2.28	0.31	0.045	III
	Linjiang	January	7.8	7.12	0.228	0.092	III
		March	14.2	7.17	0.129	0.083	III
		May	15.0	7.27	0.593	0.087	III
		July	31.6	7.51	0.351	0.067	III
		September	30.9	7.28	0.515	0.094	III
		November	25.3	7.59	0.472	0.135	III
	Hydrometric Station of Longquan River	January	7.47	1.70	0.369	0.058	III
		March	7.26	2.53	0.52	0.082	III
		May	7.11	2.83	0.295	0.055	III

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Water Body	Section	Monitoring time	pH	CODMn	NH3-N	TP	Category	
		July	6.97	2.12	0.269	0.055	III	
		September	7.36	2.10	0.084	0.040	III	
		November	7.53	2.77	0.447	0.043	III	
Zhulong River	Zhulong River	January	7.25	0.89	0.032	0.005	II	
		March	7.03	1.66	0.151	0.014	II	
		May	6.65	2.42	0.322	0.019	II	
		July	7.16	1.45	0.105	0.012	II	
		September	6.96	1.90	0.053	0.012	II	
		November	7.15	1.03	0.22	0.016	II	
Badu Stream	Badu	January	7.52	1.84	0.253	0.082	II	
		March	6.98	3.91	0.393	0.078	II	
		May	6.85	3.63	0.295	0.059	II	
		July	7.15	2.58	0.134	0.066	II	
		September	7.27	3.07	0.183	0.083	II	
		November	7.39	3.20	0.08	0.075	II	
	Zhuyang--Badu	January	7.05	1.82	0.149	0.071	II	
		March	6.95	1.96	0.106	0.066	II	
		May	6.87	2.49	0.098	0.036	II	
		July	7.12	1.78	0.193	0.054	II	
		September	7.36	3.11	0.087	0.077	II	
		November	7.33	2.16	0.114	0.036	II	
Xiaomei Stream	Xiaomei--Chatian	January	7.36	1.53	0.337	0.078	III	
		March	7.14	2.40	0.166	0.042	III	
		May	7.08	2.53	0.165	0.036	III	
		July	7.25	1.90	0.189	0.035	III	
		September	7.39	1.78	0.065	0.023	III	
		November	7.41	1.72	0.266	0.025	III	

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Water Body	Section	Monitoring time	pH	CODMn	NH3-N	TP	Category
Anren Stream	Anren Town	January	7.45	2.85	0.397	0.091	II
		March	7.25	2.22	0.178	0.069	II
		May	7.12	2.20	0.219	0.048	II
		July	7.34	2.04	0.11	0.041	II
		September	7.42	2.16	0.09	0.049	II
		November	7.38	3.00	0.102	0.083	II
Yanzhang River	Intake of Nandayang Plant Water	January	7.23	1.67	0.040	0.015	II
		February	7.38	1.29	0.100	0.018	II
		March	7.13	2.18	0.088	0.024	II
		April	6.85	1.37	0.083	0.017	II
		May	6.75	1.63	0.098	0.014	II
		June	7.14	1.28	0.030	0.005	II
		July	6.75	2.08	0.217	0.026	II
		August	6.57	1.44	0.079	0.016	II
		September	7.19	1.40	0.060	0.005	II
		October	7.52	1.24	0.074	0.011	II
		November	7.28	1.40	0.039	0.016	II
		December	7.14	1.12	0.061	0.005	II

Attached table 2.5-2 Normal Monitoring Result of Ambient Air Quality in Longquan City in 2012 (Unit: mg/Nm³)

Sampling date	Item	SO ₂	NO ₂	PM ₁₀
January	Concentration range	0.005~0.035	0.003~0.026	0.010~0.160
	Daily average value	0.013	0.011	0.054
February	Concentration range	0.005~0.039	0.005~0.032	0.015~0.13
	Daily average value	0.014	0.012	0.057
March	Concentration range	0.005~0.037	0.005~0.032	0.012~0.173
	Daily average value	0.012	0.011	0.050
April	Concentration range	0.008~0.028	0.003~0.009	0.026~0.074
	Daily average value	0.013	0.006	0.046
May	Concentration range	0.010~0.033	0.005~0.014	0.022~0.081
	Daily average value	0.015	0.008	0.045
June	Concentration range	0.010~0.016	0.005~0.014	0.015~0.086
	Daily average value	0.012	0.009	0.035
July	Concentration range	0.001~0.021	0.004~0.011	0.019~0.045
	Daily average value	0.011	0.008	0.030
August	Concentration range	0.006~0.017	0.005~0.013	0.023~0.047
	Daily average value	0.010	0.008	0.037
September	Concentration range	0.008~0.021	0.007~0.017	0.020~0.092
	Daily average value	0.010	0.010	0.044
October	Concentration range	0.008~0.028	0.010~0.072	0.020~0.158
	Daily average value	0.015	0.017	0.070
November	Concentration range	0.009~0.031	0.009~0.030	0.023~0.094
	Daily average value	0.014	0.018	0.048
December	Concentration range	0.007~0.044	0.012~0.047	0.018~0.175
	Daily average value	0.016	0.023	0.054
Annual average value		0.013	0.012	0.048
Evaluation criterion	(GB3095-1996) Class II	0.15 (0.06) *	0.12 (0.08) *	0.15 (0.10) *

* Remarks: () is the standard of annual average value.

Attached table 2.5-3 List of Acoustic Environment Monitoring and Statistical Result of Subprojects in Longquan City

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
1	Longquan urban water supply and drainage Facility Project	East of boundary	55.3	Reach the standard	46.5	Reach the standard	60	50
		South of boundary	56.9	Reach the standard	47.4	Reach the standard	60	50
		West of boundary	53.1	Reach the standard	46.3	Reach the standard	60	50
		North of boundary	56.6	Reach the standard	47.8	Reach the standard	60	50
2	Water supply and drainage project of Anren Town of Longquan City	East boundary of water supply plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of water supply plant	52.8	Reach the standard	48.5	Reach the standard	60	50
		West boundary of water supply plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		North boundary of water supply plant	51.8	Reach the standard	48.6	Reach the standard	60	50
		Huangshixuan Village	50.3	Reach the standard	47.7	Reach the standard	60	50
		East boundary of water drainage plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of water drainage plant	52.0	Reach the standard	48.2	Reach the standard	60	50
		West boundary of water drainage plant	52.3	Reach the standard	48.78	Reach the standard	60	50
		North boundary of water drainage plant	53.8	Reach the standard	49.6	Reach the standard	60	50
		Huangshixuan Village	50.5	Reach the standard	47.9	Reach the standard	60	50
3	Water supply and drainage project of Badu Town, Longquan City	East boundary of water supply plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of water supply plant	52.8	Reach the standard	48.5	Reach the standard	60	50
		West boundary of water supply plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		North boundary of water supply plant	51.8	Reach the standard	48.6	Reach the standard	60	50
		Xiaogao Village	50.3	Reach the standard	47.7	Reach the standard	60	50
		Badu Sicun Village	50.4	Reach the standard	44.8	Reach the standard	60	50
		East boundary of water drainage plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of water drainage plant	51.9	Reach the standard	59.0	Reach the standard	60	50
		West boundary of water drainage plant	52.1	Reach the standard	48.8	Reach the standard	60	50
		North boundary of water drainage plant	51.8	Reach the standard	48.6	Reach the standard	60	50
		Xiaogao Village	50.5	Reach the standard	47.9	Reach the standard	60	50
		Badu Sicun Village	50.9	Reach the standard	44.7	Reach the standard	60	50
4	Water Supply and Drainage	East boundary of water supply plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of	52.8	Reach the	48.5	Reach the	60	50

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
	Project of Chatian Town, Longquan City	water supply plant		standard		standard		
		West boundary of water supply plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		North boundary of water supply plant	51.8	Reach the standard	48.6	Reach the standard	60	50
		Chatian Village One	50.3	Reach the standard	47.7	Reach the standard	60	50
		Chatian Village Three	50.4	Reach the standard	44.8	Reach the standard	60	50
		East boundary of water drainage plant	65.1	Reach the standard	50.4	Reach the standard	70	55
		South boundary of water drainage plant	65.3	Reach the standard	50.2	Reach the standard	70	55
		West boundary of water drainage plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		North boundary of water drainage plant	51.8	Reach the standard	48.6	Reach the standard	60	50
		Chatian Village One	50.0	Reach the standard	42.9	Reach the standard	60	50
		Chatian Village Three	51.2	Reach the standard	43.2	Reach the standard	60	50
5	Water supply and drainage project of Lanju Township, Longquan City	East boundary of water supply plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of water supply plant	52.8	Reach the standard	48.5	Reach the standard	60	50
		West boundary of water supply plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		North boundary of water supply plant	51.8	Reach the standard	48.6	Reach the standard	60	50
		Yuzhang Village	50.3	Reach the standard	47.7	Reach the standard	60	50
		Wumeiyang Village	50.4	Reach the standard	44.8	Reach the standard	60	50
		East boundary of sewage plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of sewage plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		West boundary of sewage plant	65.3	Reach the standard	50.2	Reach the standard	60	50
		North boundary of sewage plant	51.8	Reach the standard	48.6	Reach the standard	70	55
		Yuzhang Village	50.0	Reach the standard	42.9	Reach the standard	60	50
Wumeiyang Village	51.2	Reach the standard	43.2	Reach the standard	60	50		
6	Water supply and drainage project of Xiaomei Town, Longquan City	East boundary of water supply plant	52.2	Reach the standard	48.6	Reach the standard	60	50
		South boundary of water supply plant	52.8	Reach the standard	48.5	Reach the standard	60	50
		West boundary of water supply plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		North boundary of water supply plant	51.8	Reach the standard	48.6	Reach the standard	60	50
		Xiaomei Village One	50.3	Reach the standard	47.7	Reach the standard	60	50
		Xiaomei Sicun Village	50.4	Reach the standard	44.8	Reach the standard	60	50
		East boundary of	52.2	Reach the	48.6	Reach the	60	50

Serial No.	Subproject Name	Location of measuring point	Monitoring Results				Evaluation criterion	
			Daytime		Night		Daytime	Night
			Result	Whether reaching the standard or not?	Result	Whether reaching the standard or not?		
		sewage plant		standard		standard		
		South boundary of sewage plant	52.5	Reach the standard	48.7	Reach the standard	60	50
		West boundary of sewage plant	52.6	Reach the standard	48.8	Reach the standard	60	50
		North boundary of sewage plant	51.8	Reach the standard	48.6	Reach the standard	60	55
		Xiaomei Village One	50.0	Reach the standard	42.9	Reach the standard	60	50
		Xiaomei Sicun Village	51.2	Reach the standard	43.2	Reach the standard	60	50
7	Demonstration project of domestic sewage disposal system of decentralized villages of Longquan City	East boundary	52.2	Reach the standard	42.1	Reach the standard	55	45
		South boundary	52.8	Reach the standard	41.6	Reach the standard	55	45
		West boundary	52.6	Reach the standard	41.8	Reach the standard	55	45
		North boundary	51.8	Reach the standard	41.6	Reach the standard	55	45
		Hecun Village	50.4	Reach the standard	42.9	Reach the standard	55	45

Attached table 2.5-4 Monitoring Result of Groundwater Quality of Subproject Sites in Longquan City

Sampling site	Monitoring time	pH	COD _{Mn} mg/L	Ammonia nitrogen mg/L	Total hardness	Sexavalence Chromium mg/L	Lead mg/L	Total copper mg/L	Volatile Phenol mg/L
Wells in Hongyang Village	2011.10.18	7.16	0.69	0.101	21	<0.004	<0.01	<0.01	<0.001
	Classification of water quality	I	I	III	I	I	II	I	I

Attached table 5.3-1 Summary Table of Atmospheric Environmental Impact and Main Pollution Reduction Measures

Serial No.	Subproject Name	Predicted results of atmospheric impact	Mitigation measure
1	Anji Meixi Sewage Disposal Plant	<p>1. The maximum hourly ground-level concentration of pollutant ammonia discharged from Meixi Sewage Disposal Plant is 0.017mg/m³, namely 8.50% of the standard value, and the largest falling place is 85m away from the pollution source; the maximum hourly ground-level concentration of H₂S is 4.07E-05mg/m³, namely 0.41% of the standard value, and the largest falling place is 85m away from the pollution source. Accordingly, the pollutants discharged in this project only have a small contribution value to the surrounding.</p> <p>2. The contribution value of the pollutant ammonia discharged from Meixi Sewage Disposal Plant to the nearest sensitive site—Shizijian Village is 0.0142mg/m³, namely 7.10% of the standard value; while the contribution value of H₂S to Shizijian Village is 3.40E-05mg/m³, namely 0.34% of the standard value. Accordingly, the discharge of the above two pollutants can reach the standard with small impact.</p> <p>3. There is no need for setting atmospheric protection zone for Meixi Sewage Disposal Plant, and the width of sanitary protection zone is 100m, and no sensitive sites such as residents are in this range.</p>	<p>1. Meixi Sewage Disposal Plant requires to cap the aerobiotic biochemical pool, fine screen grit basin, dehydration machine room and other structures for sealing collection (the gas collection rate is not lower than 95%), and adopts the plant extract atomization and oxidation system to treat the sealing collected stench; the removal efficiency of H₂S, NH₃ and other odor pollutants is not lower than 95%.</p> <p>2. 100m of width of sanitary protection zone is set.</p>
2	Anji urban area Sewage Disposal Plant	<p>1. The maximum hourly ground-level concentration of pollutant ammonia discharged from Anji Urban Sewage Disposal Plant is 0.0158mg/m³, namely 7.92% of the standard value, and the largest falling place is 91m away from the pollution source; the maximum hourly ground-level concentration of H₂S is 3.24E-04mg/m³, namely 3.24% of the standard value, and the largest falling place is 91m away from the pollution source. Accordingly, the pollutants discharged in this project only have a small contribution value to the surrounding.</p> <p>2. The contribution value of the pollutant ammonia discharged from Anji Urban Sewage Disposal Plant to the sensitive sites—Yingjiatan Village, Hehuatang Village and Gaoqiao Village, is 0.0023~0.0128mg/m³, namely 1.16~6.42% of the standard value; while the contribution values of H₂S to these sensitive sites are 4.75E-05~2.62E-04mg/m³, namely 0.48~2.62% of the standard value. Accordingly, the discharge of the above two pollutants can reach the standard with small impact.</p> <p>3. The width of sanitary protection zone for Anji Urban Sewage Disposal Plant is 150m, and no sensitive site such as residents is in this range.</p>	<p>1. After reconstruction and expansion of Anji Urban Sewage Disposal Plant, the coarse screen, the influent pump station, the fine screen and the rotational-flow grit basin, the biochemical pool, the secondary sedimentation tank, the mud storage pool, the concentration machine room, the dehydration machine room are all sealed as much as possible in order to prevent the stench from spreading outside, various deodorization monomers must be sealed for collection by covers (gas collection rate is not less than 80%). Moreover, biological deodorization tower is used to treat the stench, the removal efficiency of the odor pollutants such as H₂S and NH₃ is not less</p>

Serial No.	Subproject Name	Predicted results of atmospheric impact	Mitigation measure
			<p>than 80%.</p> <p>2. 150m of width of sanitary protection zone is set.</p>
3	Fuyang Sewage Disposal Plant project phase IV	<p>1. The maximum hourly average ground-level concentration of pollutant ammonia discharged in the phase IV of the Fuyang Sewage Disposal Plant project is 0.12 mg/m³, and the value after being superposed with the background value is 0.13 mg/m³, thus reaching the standard. The maximum value is in the southeast corner of the boundary of the project site, which is close to the boundary, so ammonia only has a small impact on the air quality in the evaluation range.</p> <p>The maximum daily average ground-level concentration of ammonia is 0.06mg/m³ and the maximum annual average ground-level concentration thereof is only 0.018 mg/m³, so the ground-level concentration thereof is relatively low and can reach the standard, and accordingly ammonia only has a small impact on the surrounding.</p> <p>2. The maximum hourly average ground-level concentration of H₂S is 0.006 mg/m³, and the value after being superposed with the background value is less than 0.007 mg/m³, thus reaching the standard. The maximum value is in the southeast of the project site, which is about 30m away from the boundary, so H₂S only has a small impact on the air quality in the evaluation range.</p> <p>The maximum daily average ground-level concentration of H₂S is 0.003mg/m³ and the maximum annual average ground-level concentration thereof is only 0.0007 mg/m³, so the ground-level concentration thereof is relatively low and can reach the standard, and accordingly H₂S only has a small impact on the surrounding.</p> <p>3. The eight sensitive sites and the boundary in the phase IV of Fuyang Sewage Disposal Plant project all can meet the air quality standards of the corresponding pollutants (Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant (GB18918-2002) and TJ36-79 Standard of Residence Zone).</p> <p>4. There is no need to set atmospheric environment protection zone for the phase IV of Fuyang Sewage Disposal Plant project. The width of sanitary protection zone is 100m and no residence zone is in this range.</p>	<p>1. Air draft is adopted in the phase IV of Fuyang City sewage disposal project to keep the inner space of collecting zone in micro-negative pressure status, thus preventing the overflow of odor pollutants internally created from influencing the environment; the collected odor pollutants are treated with bacteria bed for deodorization, and the off-gas up to the standard after treatment is discharged into the external environment via the exhaust funnel with releasing height being not lower than 15m.</p> <p>Meanwhile, capping transformation is implemented for the phase I, II and III of Fuyang Sewage Plant project to collect and treat the stench generated.</p> <p>Displacement and resettlement for Minfeng Village at the southeast side of boundary shall be finished before the operation period of the project phase IV.</p> <p>100m of width of sanitary protection zone is set.</p>
4	Fuyang Longyang Sewage	<p>1. The maximum hourly ground-level concentration of pollutant ammonia discharged by the pretreatment structures of Longyang Sewage Disposal Plant is 0.001303mg/m³, namely 0.65% of the standard value, and the largest falling place is 69m away from the</p>	

Serial No.	Subproject Name	Predicted results of atmospheric impact	Mitigation measure
	Disposal Plant	<p>pollution source; the maximum hourly ground-level concentration of H₂S is 7.22E-06mg/m³, namely 0.07% of the standard value, the largest falling place is 69m away from the pollution source. Accordingly, the pollutants discharged in this project only have a small contribution value to the surrounding.</p> <p>2. The contribution value of the pollutants ammonia discharged by the pretreatment structures of Longyang Sewage Disposal Plant to the nearest sensitive site—Chenlin Village is 0.001104mg/m³, and the value after being superposed with the environment background value is only 5.5% of the standard value; while the contribution value of H₂S to Chenlin Village is 6.12E-06mg/m³, and the value after being superposed with the environment background value is 10% of the standard value. Accordingly, the contribution values of the two pollutants to the sensitive sites can reach the standard, and the two pollutants have a small impact on the surrounding.</p> <p>3. The width of sanitary protection zone for Longyang Sewage Disposal Plant is 100m and no residence is in this range.</p>	
5	Sewage disposal plant in Anren Town of Longquan City	<p>1. The discharge amount of odor waste gas NH₃ discharged from sewage disposal plant in Anren Town of Longquan City is 0.082kg/h while that of H₂S is 0.00037kg/h, so the odor pollution source is very weak. Through prediction calculation, the maximum downwind ground-level concentrations of pollutants NH₃ and H₂S discharged in this project are respectively 0.1937 mg/m³ and 0.0008803mg/m³, both meeting the maximum acceptable concentration of hazardous substance in the air of the residence zone regulated in Sanitary Standards for Industrial Enterprise Design (TJ36-79), so the two pollutants only have a small impact on the surrounding.</p> <p>2. There is no need to set atmospheric environment protection zone for sewage disposal plant in Anren Town of Longquan City, and the width of sanitary protection zone is 100m, and no sensitive site such as residents is in this range.</p>	1. 100m of width of sanitary protection zone is set.
6	Sewage disposal plant in Badu Town of Longquan City	<p>1. The discharge amount of odor waste gas NH₃ discharged from sewage disposal plant in Badu Town in Longquan City is 0.058kg/h while that of H₂S is 0.00026kg/h, so the odor pollution source is very weak. Through prediction calculation, the maximum downwind ground-level concentrations of pollutants NH₃ and H₂S discharged in this project are respectively 0.1409 mg/m³ and 0.0006338mg/m³, both meeting the maximum acceptable concentration of hazardous substance in the air of the residence zone regulated in Sanitary Standards for the Industrial Enterprise Design (TJ36-79), so</p>	1. 100m of width of sanitary protection zone is set.

Serial No.	Subproject Name	Predicted results of atmospheric impact	Mitigation measure
		the two pollutants only have a small impact on the surrounding. 2. There is no need to set atmospheric environment protection zone for sewage disposal plant in Badu Town of Longquan City and the width of sanitary protection zone is 100m, and no sensitive site such as residents is in this range.	
7	Sewage disposal plant in Chatian Town of Longquan City	1. The odor pollution source of sewage disposal plant in Chatian Town of Longquan City is very weak, and the discharge amount of NH ₃ is 0.024kg/h while that of H ₂ S is 0.00011kg/h, so the odor pollution source is weak. Through prediction calculation, the maximum downwind ground-level concentrations of pollutants NH ₃ and H ₂ S discharged in this project are respectively 0.09132 mg/m ³ and 0.0003832mg/m ³ , both meeting the maximum acceptable concentration of hazardous substance in the air of the residence zone regulated in Sanitary Standards for the Industrial Enterprise Design (TJ36-79), so the two pollutants only have a small impact on the surrounding. 2. There is no need to set atmospheric environment protection zone for sewage disposal plant in Chatian Town of Longquan City, and the width of sanitary protection zone is 100m, and no sensitive site such as residents is in this range.	1. 100m of width of sanitary protection zone is set.
8	Sewage disposal plant in Lanju Town of Longquan City	1. The odor pollution source of sewage disposal plant in Chatian Town of Longquan City is very weak, and the discharge amount of NH ₃ is 0.024kg/h while that of H ₂ S is 0.00011kg/h, so the odor pollution source is weak. Through prediction calculation, the maximum downwind ground-level concentrations of pollutants NH ₃ and H ₂ S discharged in this project are respectively 0.06126 mg/m ³ and 0.0002756mg/m ³ , both meeting the maximum acceptable concentration of hazardous substance in the air of the residence zone regulated in Sanitary Standards for Industrial Enterprise Design (TJ36-79), so the two pollutants only have a small impact on the surrounding. 2. There is no need to set atmospheric environment protection zone for sewage disposal plant in Lanju Town of Longquan City, and the width of sanitary protection zone is 100m, and no sensitive site such as residents is in this range.	1. 100m of width of sanitary protection zone is set.
9	Sewage disposal plant in Xiaomei Town of Longquan City	1. The odor pollution source of sewage disposal plant in Xiaomei Town of Longquan City is very weak, and the discharge amount of NH ₃ is 0.024kg/h while that of H ₂ S is 0.00011kg/h, so the odor pollution source is weak. Through prediction calculation, the maximum downwind ground-level concentrations of pollutants NH ₃ and H ₂ S discharged in this project are respectively 0.06126 mg/m ³ and 0.0002756mg/m ³ , both meeting the maximum acceptable concentration of hazardous substance in the air of the	1. 100m of width of sanitary protection zone is set.

Serial No.	Subproject Name	Predicted results of atmospheric impact	Mitigation measure
		<p>residence zone regulated in Sanitary Standards for Industrial Enterprise Design (TJ36-79), so the two pollutants only have a small impact on the surrounding.</p> <p>2. There is no need to set atmospheric environment protection zone for sewage disposal plant in Xiaomei Town of Longquan City, and the width of sanitary protection zone is 100m, and no sensitive site such as residents is in this range.</p>	
10	Tiantai Cangshan Sewage Disposal Plant	<p>1. After Tiantai Cangshan Sewage Disposal Plant organizes the discharge of waste gas and pollutants, the maximum ground-level concentration place is 648m away from the exhaust funnel, and the predicted values of the maximum ground-level concentrations for NH₃ and H₂S are respectively 0.0119mg/m³ and 0.0000343mg/m³, namely respectively 5.93% and 0.34% of the standard value, thus meeting the maximum acceptable concentration of hazardous substance in the air of the residence zone regulated in TJ36-79 Sanitary Standards for Industrial Enterprise Design.</p> <p>2. The predicted values of the maximum ground-level concentrations for the unorganized waste gas NH₃ and H₂S in the project are respectively 0.019mg/m³ and 0.0000687mg/m³, maximally 9.49% and 0.69% of the standard value, thus meeting the Class II (1.5mg/m³, 0.06 mg/m³) of Maximum Acceptance Concentration of Waste Gas Emission at Boundary (Edge of Protection Zone).</p> <p>3. The one-time concentration contribution values of the NH₃ and H₂S discharged without organization in the project to the nearest sensitive site—Yushan Village are respectively 0.00936mg/m³ and 0.0000334mg/m³, the background values of NH₃ and H₂S in the planned project site are not detected out after current condition monitoring, so after being superposed with the contribution value, the discharge of the two pollutants can also reach the standard, and the two pollutants also only have a small impact on the surrounding.</p> <p>4. There is no need to set atmospheric environment protection zone for Tiantai Cangshan Sewage Disposal Plant, and the width of sanitary protection zone is 100m, and no sensitive site such as residents is in this range.</p>	<p>1. In Tiantai Cangshan Sewage Disposal Plant, capping treatment is provided for the preliminary sedimentation tank, the anaerobic tank and the secondary sedimentation tank; sealing treatment is implemented for the sludge tank, the dehydration machine room, the sludge storage shed, etc. and meanwhile the waste gas collection fan is also provided in order to change the unorganized waste gas into the organized waste gas. The waste gas is sent to the deodorization reactor after collection and finally discharged at a high altitude, and the biological deodorization method is the first choice for the deodorization, because the deodorization efficiency thereof is stabilized to be around 80%.</p> <p>2. 100m of width of sanitary protection zone is set.</p>
11	Sewage disposal plant in Dayuan Town of Fuyang City	<p>The sewage in Dayuan Town is brought into Sewage disposal plant in Dayuan Town, and according to Environmental Impact Report of the Project of Sewage Treatment and Reuse of Recycled Water in Dayuan Town of Fuyang City, the predicted results are as follows:</p> <p>Under the conditions of conventional D stability and NW wind direction, the</p>	

Serial No.	Subproject Name	Predicted results of atmospheric impact	Mitigation measure
		<p>concentrations of NH₃ and H₂S at boundary can meet the Class II standard value at boundary in Emission Standards for Odor Pollutants. Meanwhile, the diffusion concentrations of NH₃ and H₂S outside the boundary do not exceed the maximum acceptable concentration of hazardous substance in the air of the residence zone regulated in Sanitary Standards for the Industrial Enterprise Design. Additionally, under the prevailing wind direction NW, the maximum ground-level concentration of NH₃ is 0.2591 mg/m³ while that of H₂S is 0.0167mg/m³.</p> <p>The predicted results of the impact of the pollutants in this project on the surrounding sensitive sites all meet the standards, and the predicted result for NH₃ in Pudong Village which is nearest to the project is 15.3% of the standard value while that for H₂S is 16% of the standard value, so the two pollutants meet the requirements of sanitary design standard for residence zone.</p>	
12	water plant	<p>During the operation of the water plant, no gas is discharged, so it has no impact on the surrounding.</p>	<p>1. Automated and sealed chlorine dioxide generator is used in the water plant, and workers operate in the control room far away from the production equipment, and ventilation and detoxification are enhanced.</p>

Attached table 5.3-2 Summary Table of Water Environmental Impact of Water Plant and Main Pollution Reduction Measures

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
1	Anji Gaoyu Water Plant	<p>1. Impact on regional water resources The designed daily water intaking scale of Gaoyu Water Plant is 25,000m³/d, the daily average water intaking amount is 21,900m³, the annual water intaking amount is 7,990,000m³, and all the water is taken from the surface water of Tianzigang reservoir. Calculated according the hydrological analysis over the years, the input water quantity cannot meet the water demand in this region due to the limited rainwater harvest area of Tianzigang Reservoir. Because Fushi Reservoir is large II type reservoir, which has rich water source and can meet the water supply demand in its own region and of which the annual average power storage can reach up to 150,000,000 m³, Gaoyu Water Plant can take advantage of the power generation tail water of Fushi Reservoir via Fushi channel, thus not only making full use of the regional water resource and effectively alleviating the imbalance between water supply and water demand, but also having an unobvious impact on the regional water resources.</p> <p>2. Analysis of impact on other water users Gaoyu Water Plant gets water from Tianzigang Reservoir and needs to use the power generation tail water from Fushi Reservoir, thus partly reducing the power storage of Ancheng Station. In dry year and during long drought period, the water is not enough for the agricultural water in irrigation area in Tianzigang. The construction of Fushi channel after the completion of Fushi Reservoir aims at transferring water from Fushi Reservoir, and therefore the water supply for agricultural irrigation is not influenced when calculating the available water supply in this project.</p> <p>3. Analysis of impact on ecological environment The riverway (ecological) base flow refers to a certain flow provided by Tianzigang Reservoir in order to maintain the original ecological environment of the downstream riverway. Calculated on the basis of 10% of the regional average runoff volume over the years, the base flow is 0.05m³/s, and the average ecological water utilization over the years is about 1,550,000m³. Since the ecological base flow of the downstream riverway has been considered while calculating the available water supply adjustment of Tianzigang Reservoir, there will be no obvious impact on the ecological environment if the adjustment is practically implemented.</p>	<p>1. The domestic sewage after preliminary treatment at the septic-tank is discharged into the municipal sewage pipe network.</p> <p>2. The water plant is set with recycling pool to discharge the backwash sewage of filter chamber into recycling pool, and the sewage is sent to the steady-pressure distributing well by lift pump after adjustment, and enters water purification process for re-treatment and utilization without discharging outside.</p> <p>2. The sludge water of the folded plate flocculation tank and the horizontal sedimentation tank is discharged into mud pool and then infiltrated after a short stop in the mud pool in order to separate the mud from the water, and then the filtered water is discharged into the rivers nearby via an infiltration mode, and the remained mud is dried and then removed manually.</p>
2	Banshan Water Plant in Anji	<p>1. Impact on regional water resources The designed daily water utilization scale of Banshan Water Plant is 20,000m³/d, the daily average water intaking amount is 17,600 m³, the annual water intaking amount is 6,360,000 m³, and the</p>	<p>1. The domestic sewage after preliminary treatment at the septic-tank is discharged into the municipal sewage pipe network.</p>

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
	County	<p>water is taken from the surface water of Fushi Reservoir. Calculated according the hydrological analysis over the years, Fushi Reservoir has rich water resource, and the inflow of Fushi Reservoir in rich, normal, drought, extraordinarily drought years, namely in 1983, 2008, 1979, 1978, is respectively 446,300,000m³, 239,070,000m³, 140,640,000m³ and 96,300,000m³. Additionally, the water intaking amount of this project is respectively 1.4%, 2.7%, 4.5% and 6.6% of the inflow, thus having an unobvious impact on the regional water resource.</p> <p>2. Analysis of impact on other water users</p> <p>During the dispatch calculation of water supply of Fushi Reservoir in the project, high quality water source of reservoir should be supplied in priority, and the intake quantity of water shall be calculated by installing metering device at intake. The generating water quantity are replaced by supplying water quantity after water supply, which reduces the generating water quantity to some extent and increases the economic benefit on the contrary. According to the investigation by Fushi Reservoir Power Station, the average water consumption per kilowatt-hour is 17 m³, so the water price will be RMB 0.024/ m³ when calculated as the integrated electricity price being RMB 0.4 per kilowatt-hour; the price of water supplying is RMB 0.17/ m³, which means that the economic benefit of water supplying is 7 times of that of power generating, thus not impacting on the overall economic benefit of the reservoir.</p> <p>During calculation of the available water supply adjustment in the project, actual measured reservoir inflow is adopted; therefore, it does not exert influence on other upstream water users. The generating tail water can meet the water demand of downstream irrigation farming, and also does not exert influence on downstream water users.</p> <p>3. Analysis of impact on ecological environment</p> <p>Riverway (ecological) basic flow refers to certain water flow supplied by Fushi Reservoir for preserving the original environment of downstream riverways. Based on 10% of average river runoff volume over the years being the riverway (ecological) basic flow, one can draw the conclusion that riverway (ecological) basic flow is 0.86m³/s and average ecological water utilization over the years is 27140000m³. During calculation of available water supply adjustment for Fushi Reservoir, ecological base flow of downstream riverway has been taken into consideration. Headwork of Fushi channel usually outflows to supply domestic water and ecological water for villagers along Xi River, which does not significantly impact on ecological environment.</p>	<p>2. The water plant is set with recycling pool to discharge the backwash sewage of filter chamber into recycling pool, and the sewage is sent to the steady-pressure distributing well by lift pump after adjustment, and enters water purification process for retreatment and utilization without discharging outside.</p> <p>2. The sludge water of the folded plate flocculation tank and the horizontal sedimentation tank is discharged into mud pool and then infiltrated after a short stop in the mud pool in order to separate the mud from the water, and then the filtered water is discharged into the rivers nearby via an infiltration mode, and the remained mud is dried and then removed manually.</p>
3	Longquan	Clear liquid in sewage thickening tank and mud pressing waste water after coagulating	1. Back wash water enters wastewater

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
	Nandayang Water Plant	sedimentation in the engineering project of Nandayang Water Plant are discharged into Longquan River after reaching the Class I standard of Integrated Wastewater Discharge Standard (GB8978-1996).As the discharged wastewater quality is simple (mainly SS), its impact on nearby water body is smaller after reaching the standard through treatment, which basically does not change the quality of water body and has no influence on water environment.	equalization pond for recycling; 2. After the sewage from sedimentation tank is concentrated by sludge thickener, waste water generated by the mechanically dehydrated sludge and muddy water in underlayer generated by coagulating sedimentation shall enter coagulative precipitation tank for flocculating sedimentation and be discharged after reaching the standard.
4	Anji Meixi Sewage Disposal Plant	<p>Final assimilative water for Meixi Sewage Disposal Plant is from Xitiao River which lies in Anji County with total length of 108.3 km and is a perennial river. The average annual discharge of Xitiao River is 40.0 m³/s, and the flow of Xitiao River during dry season is 2.99 m³/s by calculating according to 95% guarantee rate.</p> <p>In case of the up-to-standard discharge of sewage of Meixi Sewage Disposal Plant during dry season, CODCr and NH₃-N away from discharge outlet in all distances both can up to Class III water quality standard (CODCr ≤20 mg/L, NH₃-N≤1.0 mg/L) of Environmental Quality Standard for Surface Water (GB3838-2002) within the range of evaluation. The CODCr concentration in control section (Jingwan section) is 16.59mg/L, and the NH₃-N is 0.78mg/L which respectively account for 82.95% and 78% of standard value. After expansion of sewage disposal plant, pollution load originally discharged into Xitiao River shall cut down. Thus the water quality of Xitiao River shall be expected to be improved.</p> <p>In case of the abnormal discharge (removal rate is reduced to 50%) of sewage in Meixi Sewage Disposal Plant during dry season, CODCr and NH₃-N, after it is superposed with background values within the range between discharge outlet and 4km downstream at each section, shall both exceed standard. When arriving at Jingwang control section, the CODCr concentration is 29.97 mg/L, and the predicted concentration of NH₃-N is 1.77 mg/L, which respectively are 1.50 times and 1.77 times of Class III standard value in Environmental Quality Standard for Surface Water (GB3838-2002). Therefore, if the Sewage Disposal Plant operates improperly with occurrence of abnormal discharge, it shall have adverse effect on downstream of the Xitiao River. So management should be strengthened to ensure the normal operation of Sewage Disposal Plant.</p> <p>In case of the abnormal discharge (removal rate is reduced to 0%) of sewage in sewage disposal</p>	<p>1. The municipal department shall actively do well in the sewage cleaning and diversion work of sewage pipe network to avoid a large number of rainwater entering the sewage disposal plant. Relevant department shall complete the management work of pipe entry enterprises, water quality entering the pipe must reach the inlet standard, high concentrated organic wastewater and harmful and toxic substances concentration shall be strictly controlled according to the inlet standard.</p> <p>2. The operation condition of sewage disposal facilities shall be timely understood so as to ensure the normal running. The inflow and effluent quality shall be regularly monitored, and the running status of the processing unit shall be timely adjusted based on different water volume and water quality, so as to ensure the optimal treatment efficiency.</p>

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
		<p>plant in the project during dry season, CODCr and NH₃-N, after it is superposed with background values at each section within the range between discharge outlet and 4km downstream, shall both exceed standard. When arriving at Jingwang control section, the CODCr concentration is 42.71 mg/L, and the predicted concentration of NH₃-N is 3.10mg/L, which respectively are 2.14 times and 3.10 times of Class III standard value in Environmental Quality Standard for Surface Water (GB3838-2002). In case of any accident in Sewage Disposal Plant, the sewage shall directly be discharged into Xitiao River, which shall have great adverse effect on down reaches. Therefore, accidents should be avoided.</p> <p>To sum up, there're no intake, environmental sensitive sites and conservatory water in downstream of Meixi Sewage Disposal Plant, which shall normally affect the surface water body less. In case of any severe accidental discharge of sewage, the water quality in downstream of Xitiao River shall not meet the requirements of function division.</p>	<p>3. Relevant department shall enhance the treatment for industrial pollution sources, especially for the first-class pollutant, various pollutant-holding enterprises are required to conduct pretreatment in the plant, strictly control the discharge of poisonous and harmful substances and ensure the normal running of sewage disposal facilities.</p>
5	Anji Urban Sewage Disposal Plant	<p>The discharge outlet of Anji Urban Sewage Disposal Plant lies in Xu River, which is the first tributary of Xitiao River. The average annual discharge of Xitiao River is 40.0 m³/s, and the flow of Xitiao River during dry season is 2.99 m³/s by calculating according to 95% guarantee rate. The background concentration is selected to be mean value of monitoring data in monitoring section of delivery station-16.7 mg/L of CODCr and 0.534 mg/L of NH₃-N.</p> <p>In case of the up-to-standard discharge of sewage of Anji Urban Sewage Disposal Plant during dry season, CODCr and NH₃-N away from discharge outlet in all distances both can up to Class III water quality standard (CODCr ≤ 20 mg/L, NH₃-N ≤ 1.0 mg/L) of Environmental Quality Standard for Surface Water (GB3838-2002) within the range of evaluation. The CODCr concentration in control section (Jingwan section) is 16.59mg/L, and the NH₃-N is 0.78mg/L which respectively account for 82.95% and 78% of standard value. After expansion of sewage disposal plant, pollution load originally discharged into Xitiao River shall cut down. Thus the water quality of Xitiao River shall be expected to be improved.</p> <p>In case of abnormal discharge (removal rate is reduced to 50%) of sewage in sewage disposal plant in Anji county and accidental discharge (removal rate is reduced to 0%) during dry season, CODCr and NH₃-H from discharge outlet and 9km downstream (Chaitanbu section) shall both exceed standard, which class III water quality cannot be guaranteed. Therefore, if the sewage disposal plant operates improperly with occurrence of abnormal discharge, it shall have adverse effect on downstream of the Xitiao River. So management should be strengthened to ensure the normal operation of sewage disposal plant.</p>	

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
		To sum up, the discharged wastewater under normal operation of the project affects the surface water body less. In case of any severe accidental discharge of sewage, the water quality in downstream of Xitiao River shall not meet the requirements of function division.	
6	Project Phase IV of Fuyang Sewage Disposal Plant	<p>1. During normal discharging of project phase IV of Fuyang Sewage Disposal Plant, the envelop area is 0.053km² if the maximum delta value of CODMn during neap tide is larger than 2mg/L and its contribution value to boundaries of the functional district of the downstream Class II surface water is 0.24mg/L; during abnormal discharge, the envelop area is 0.082km² if the maximum delta value of CODMn during neap tide is larger than 2mg/L and its contribution value to boundaries of the functional district of the downstream Class II surface water is 0.29mg/L; during accident discharge, the envelope area is 0.167km² if the maximum delta value of CODMn during neap tide is larger than 10mg/L and its contribution value to boundaries of the functional district of the downstream Class II surface water is 1.84mg/L. while individual discharge, certain influence will produce to the water environment of the involved waters; normal discharge impacts the water environment at slightest, and abnormal discharge greater, accident discharge greatest. NH₃-N and TP have similar disciplines.</p> <p>2. Other source of pollution has less effect on water environment of water area near the Fuyang phase IV discharge outlet. Fuyang phase IV sewage shall not superpose with other source of pollution and account for a less percentage of boundary contribution value of downstream class II surface water.</p> <p>3. Upon the execution of Fuyang project phase IV, quantity of discharged pollutants CONMn and NH₃-N respectively have increased by 46% and 9%, which is with a trend consistent with the predictive results about the water quality affected in the water body and the CODMn and the NH₃-N indexes express certain variation in the receiving waters.</p>	
7	Fuyang Longyang Sewage Disposal Plant	<p>Ge River originates from Huangtianping, Tianmu Mountain, Lin'an city, enters the territory of Fuyang from Tangjiaqiao, and joins with Song River in Shuangjiangkou of Xideng Town with total length of 42.2 km and drainage area of 420 km², among which its source is 26 km from Yanshiling Reservoir dam.</p> <p>Longyang Water Disposal Plant in Fuyang City lies in the midstream of Ge River. According to information investigation, the average water flow of this river is 4.8 m³/s with average flow rate being 0.16 m/s and 90% guarantee rate. The average flow during the driest season is 0.27 m³/s. The water width of Ge River during dry season is 30 m with average depth of 1 m and average slope of 1.68‰.</p>	

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
		<p>Under normal discharge, the background values take the water quality of section at 500m in the upstream of Ge River discharge outlet. (COD takes 3.53 mg/L, NH₃-N takes 0.0675 mg/L, and TP takes 0.0125 mg/L). Under water flow with 90% frequency, COD and total phosphorus concentration at 50 m in the downstream of discharge outlet can both up to the class II water standard. Ammonia nitrogen at 100 m in the downstream of discharge outlet can up to the class II water standard, and all pollutants at 50 m in the downstream of discharge outlet can up to class III water standard.</p> <p>Under abnormal discharge (the treatment rate reduced by 30%), the background values take water quality of section at 500 m in the upstream of Ge River discharge outlet (same as above). Under water flow with 90% frequency, COD concentration at 300 m in the downstream of discharge outlet can up to class II water quality, and class III water quality at 100 m; NH₃-N concentration at 1000 m in the downstream of discharge outlet can up to class II water standard, and class III water standard at 200 m; TP concentration at 200 m in the downstream of discharge outlet can meet class II water standard.</p> <p>In case of accidental discharge (directly discharged sewage), under water flow with 90% frequency, COD_{Cr} concentration at 1000 m in the downstream of discharge outlet can up to class II water standard and class III water standard at 200 m; NH₃-N concentration at 4000 m downstream of discharge outlet can up to class II water standard. Ammonia nitrogen concentration at 200 m in the downstream can up to class III water standard; TP concentration at 200 m in the downstream of discharge outlet can up to class II water standard, and class III water standard at 100 m.</p>	
8	Sewage disposal plant at Fuyang market entrance.	Under normal sewage treatment after project completed, the evaluation section COD of Huyuan River shall increase from 15 mg/l to 15.24 mg/l and the ammonia nitrogen shall increase from 0.24 mg/l to 0.27 mg/l. Under normal discharge, the sewage shall discharge after reaching the class IA standard of <i>Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant</i> (GB18918-2002), which has less effect on surface water environment.	
9	Sewage disposal plant in Dayuan Town of Fuyang	Sewage from Dayuan town is discharged into Dayuan Sewage Disposal Plant, which lies in the intersection of Dayuan town in Fuyang city and Chunjiang road with designed sewage treatment scale of 100000 m ³ /d, serving for sewage treatment of industrial park in the north of Dayuan Town and domestic sewage treatment within the town. Dayuan Sewage Disposal Plant was constructed in July, 2010 and put into trail operation in October, 2011. The effluent has met the design and environmental protection discharge requirements after inspection. The town sewage	

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
	City	discharged into Dayuan Sewage Disposal Plant shall be discharged after meeting the standard, which has less effect on Dayuan River.	
10	Sewage Disposal Plant in Xindeng Town, Fuyang	Xindeng Sewage Disposal Plant lies in the east side of Shuangta Village and west side of Ge River, covering an area of 4.9 hectares, adopting two-stage biochemical treatment process with design scale in phase I of 10000 m ³ /d and daily average water inflow has already been up to 8000 m ³ /d at present. The project phase II is in the earlier developing. The total design scale after expansion is up to 29000m ³ /d, upgrading from the Class 1B discharging standard to the Class 1A discharging standard. Serving for the whole Xindeng district, the phase II expansion of Xindeng Sewage Disposal Plant has been completed to ensure the effective treatment for newly collected water after the town sewage collection. According to the calculation of average annual discharge of Luzhu River, the quantity of sewage effluent of this project under normal condition is 29000 t/d. Over-standard pollutant is mainly near the discharge outlet and the maximum over-standard distance is 220 m from the discharge outlet, which has not significant influence on the water quality of downstream Luzhu River.	
11	Sewage disposal plant in Anren Town of Longquan City	The inflow of sewage disposal plant in Anren Town of Longquan City is composed of domestic sewage with water inflow of 1700 t/d. Its tail water shall be discharged into Anren River after reaching the Class 1B standard of Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant. Total discharge of tail water in the project is 620500 t/a with tail water quality COD of 60 mg/L, ammonia nitrogen of 8 mg/L. Quantity of pollutant discharged for COD is 37.23 t/a (0.102 t/d) with ammonia nitrogen of 5.11 t/a (0.014 t/d). At present, there's no centralized sewage disposal plant in Anren Town. The domestic sewage from residential area is mostly drained into roadside ditch in the village and finally into water body, which has certain influence on water pollution of Anren River. After the project operation, yearly reduced pollutant of COD is 273.02 tons and ammonia nitrogen is 23.00 tons, which can effectively reduce the pollutant discharge and pollution load of nearby water, improve the water quality of Anren River to some extent and ensure the water quality of Anren River of receiving water meets the water quality standard in II water environment functional zone.	
12	Sewage disposal plant in Badu Town of	The tail water of sewage plant in Badu Sewage Disposal Plant of Longquan City is discharged into Badu River after reaching the Class 1B standard of Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant. The total discharge of tail water in the project is 438000 t/a with tail water quality COD of 60 mg/L and ammonia nitrogen of 8 mg/L. The quantity of pollutant discharged for COD is 26.28 t/a (0.072 t/d) with ammonia nitrogen of 3.65 t/a (0.010 t/d).	

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
	Longquan City	At present, most sewage from town in the project hasn't been discharged into sewage system yet and the domestic sewage is still in decentralized drainage state, which has greater influence on nearby water pollution. After project operation, the domestic sewage from Badu Town and villages shall be discharged after collection and treatment. The yearly reduced pollutant of COD is 192.72 tons and ammonia nitrogen is 16.06 tons, which can effectively reduce the pollutant discharge and pollution load of nearby water and improve the water quality of Badu River to some extent.	
13	Sewage disposal plant in Chatian Town of Longquan City	<p>Tail water of sewage plant in Chatian Sewage Disposal Plant of Longquan City shall be discharged into nearby Xiaomei River after reaching the Class 1B standard of <i>Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant</i> (GB18918-2002).The total discharge of project tail water is 182500 t/a with tail water quality COD of 60 mg/L and ammonia nitrogen of 8 mg/L. The quantity of pollutant discharged for COD is 10.95 t/a with ammonia nitrogen of 1.46 t/a.</p> <p>At present, most sewage form town hasn't been discharged into the sewage system yet and the domestic sewage is still in decentralized drainage state without orderly centralized drainage, which has certain effect on nearby water pollution. After project operation, the yearly reduced pollutants of COD is 34.675 tons with ammonia nitrogen of 3.103 tons, which can effectively reduce the pollutants discharge and pollution load of nearby water and improve the nearby water quality of the project to some extent.</p>	
14	Sewage disposal plant in Lanju Town of Longquan City	<p>Tail water of sewage plant in Lanju Sewage Disposal Plant of Longquan City shall be discharged into nearby Yuzhang River after reaching the Class 1B standard of <i>Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant</i> (GB18918-2002).The total discharge of project tail water is 182500 t/a with tail water quality COD of 60 mg/L and ammonia nitrogen of 8 mg/L. The quantity of pollutant discharged for COD is 10.95 t/a with ammonia nitrogen of 1.46 t/a.</p> <p>As the discharge outlet of sewage plant in the project lies in the bank side of Yuzhang River, being far way from the intake and Ruiyang secondary reservoir of water source at intersection of 7# tunnel and 8# tunnel of Ruiyang diversion works; and the discharge outlet lies in the downstream of water source, thus the tail water discharge of the sewage plant in the project has no influence on town water source.</p> <p>In addition, most sewage of the project from the town hasn't been discharged into sewage system at present and the domestic sewage is still in decentralized drainage state without orderly centralized drainage, which has greater influence on nearby water pollution. After the project</p>	

Serial No.	Subproject Name	Prediction results of water environment impact	Mitigation measure
		operation, sewage from Lanju township shall be discharged outside after collection and treatment, and the yearly reduced pollutants of COD is 34.675 tons with ammonia nitrogen of 3.103 tons, which can effectively reduce the pollutant discharge and pollution, load of nearby water and improve the water quality of nearby water body in the project.	
15	Sewage disposal plant in Xiaomei Town of Longquan City	<p>Tail water of sewage plant in Xiaomei Sewage Disposal Plant of Longquan City shall be discharged into nearby Xiaomei River after reaching the Class 1B standard of <i>Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant</i> (GB18918-2002).The total discharge of project tail water is 182500 t/a with tail water quality COD of 60 mg/L and ammonia nitrogen of 8 mg/L. The quantity of pollutant discharged for COD is 10.95 t/a with ammonia nitrogen of 1.46 t/a.</p> <p>At present, most sewage from town hasn't been discharged into the sewage system yet and the domestic sewage is still in decentralized drainage state without orderly centralized drainage, which has certain effect on nearby water pollution. After project operation, the yearly reduced pollutants of COD is 34.675 tons with ammonia nitrogen of 3.103 tons, which can effectively reduce the pollutants discharge and pollution load of nearby water and improve the nearby water quality of the project to some extent.</p>	
16	Tiantai Cangshan Sewage Disposal Plant	<p>The concentration of pollution factor CODCr and NH3-N is decreased progressively with the distance increasing from discharge outlet. The concentration of the two from the discharge outlet of project wastewater in Cangshangdao River to the place at 5 km in the downstream of discharge outlet is below the standard concentration value; After background superposition, the concentration of CODCr and NH3-N is still below the standard concentration value.</p> <p>In case of accidental discharge, the reduction quantity of CODCr and NH3-N is decreased compared to that under normal discharge, and the over-standard of CODCr has been found nearly at 20 m in the downstream of discharge outlet.</p> <p>After project implementation, most domestic sewage within the scope of service area shall be discharged into sewage disposal plant of the project. Based on the predicting results, under normal up-to-standard discharge of project tail water, the main pollution factor has less effect on water quality of Shifeng River. After background superposition, Class III <i>standard of Environmental Quality Standard for Surface Water</i> (GB3838-2002) shall be satisfied, without exerting obvious influence on water quality of downstream conventional monitoring section.</p>	

Attached table 5.3-3 Summary Table of Water Environmental Impact of Sewage Treatment Plant and Main Pollution Reduction Measures

Serial No.	Subproject Name	The predicting results of noise impact	Mitigation measure
1	Anji Meixi Sewage Disposal Plant	1. The noise value at each boundary in Meixi Sewage Disposal Plant can meet Class II <i>standard value (60dB) of Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008), except the over-standard noise in east and north boundary at night. The noise of project operation has certain effect on ambient environment.	1. Low noise and high efficient electromechanical device shall be selected in priority during equipment selection.
2	Anji Gaoyu Water Plant	1. Noise value at each boundary in Gaoyu Water Plant can conform to the Class II <i>standard (60dB) of Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008), which has less effect on ambient environment. 2. The noise value at boundary in daytime in water supply pump station can reach the Class I <i>noise standard of Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008). At night, the noise values at each boundary are all exceed the standard, among which the maximum over-standard value for south boundary at night is 7.8dB.	2. Noise elimination, vibration isolation, damping and other measures shall be adopted for water pump and other strong noise equipment to make the noise in blower room and pump room meet the national regulation of Sanitary Standard for the Noise of Industrial Enterprises.
3	Banshan Water Plant in Anji County	The noise value at each boundary in Banshan Water Plant of Anji County can meet Class II standard value (60dB) of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008), which has less effect on ambient environment.	3. Regular checking, maintenance and management shall be enhanced for various mechanical equipment and its noise reduction devices, and it shall be timely replaced in case of any fault in equipment, so as to reduce the mechanical noise caused the abnormal running of machinery.
4	Anji Urban Sewage Disposal Plant	The noise value at each boundary in Anji Urban Sewage Disposal Plant can meet Class II standard value (60dB) of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008), which has less effect on ambient environment.	4. Pumps in the water supply pump station and sewage pumping station shall be set with anti-vibration pad, and the pump house is set with sound insulation doors and windows.
5	Project Phase IV of Fuyang Sewage Disposal Plant	The noise value of south boundary day and night at the project phase IV for Fuyang Sewage Disposal Plant can meet the Class IV standard of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008); in the daytime, the noise values in the east, west and north boundary all meet the standard, among which the over-standard noise value of east boundary is 1.1 at night, the north boundary is 0.1 at night, the west boundary reaches the standard at night. In general, the engineering noise has less effect on outside environment.	5. Vibration pad, etc. shall be set for equipment foundation to reduce the noise generated by equipment vibration.
6	Fuyang Longyang Sewage Disposal Plant	During the operation period of Longyang Sewage Disposal Plant, the noise value in other boundaries at day and night can meet the Class I standard (i.e. 55dB in the daytime and 45dB in the nighttime) of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008), except over-standard noise value of south boundary at night being 7.4 dB and the north boundary at night being 0.4dB. After the noise background value of Chenlin	

Serial No.	Subproject Name	The predicting results of noise impact	Mitigation measure
		village (the nearest sensitive site) superposes the noise contribution value of this project, the noise value at day and night can meet the Class I <i>standard of Environmental Quality Standard for Noise</i> (GB3096-2008).	
7	Engineering project of Nandayang Water Plant in Longquan City	After the implementation of engineering project of Nandayang Water Plant, the newly-built specialized room for equipment, blower and water pump shall all be installed in the equipment room. The boundary noise can meet the standard limiting value of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008).	
8	Sewage disposal plant in Anren Town of Longquan City	The noise contribution value at each boundary in Anren Sewage Plant can respectively meet the Class II standard of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008). The nearest sensitive protected object in the periphery is the Huangshixuan village with distance of 350 m from the west side of plant site, and the noise has less effect on peripheral village.	
9	Sewage disposal plant in Badu Town of Longquan City	The noise contribution value at each boundary in Badu Sewage Plant can respectively meet the Class II standard of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008). The nearest sensitive protected object in the periphery is the Xiaogao natural village with distance of 350 m from the northeast of plant site, and the noise has less effect on peripheral village.	
10	Sewage disposal plant in Chatian Town of Longquan City	The noise contribution value in the east and south side of Chatian Sewage Plant and west and north boundary is respectively meet the Class IV and II standard of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008). The nearest sensitive object in the south side is Chasan village, whose noise predicted value satisfies the Class II <i>standard of Environmental Quality Standard for Noise</i> (GB3096-2008).	
11	Sewage disposal plant in Lanju Town of Longquan City	The noise contribution value in the east and south side of Lanju Sewage Plant and west and north boundary is respectively meet the Class II and IV standard of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008). The nearest sensitive protected object in the periphery is the Wumeiyang village with distance of 300m from the west side of plant site, and the noise has less effect on peripheral village.	

Serial No.	Subproject Name	The predicting results of noise impact	Mitigation measure
12	Sewage disposal plant in Xiaomei Town of Longquan City	The noise contribution value at each boundary in Xiaomei Sewage Plant can respectively meet the Class II standard of Emission Standard for Industrial Enterprise Noise at Boundary (GB12348-2008). The nearest sensitive protected object in the periphery is the Wudunliao village with distance of 210m from the west side of plant site, and the noise has less effect on peripheral village.	
13	Tiantai Cangshan Sewage Disposal Plant	The contribution value of project equipment noise to noise level at each boundary day and night is 24~37.8dB, which meets the Class I standard of <i>Emission Standard for Industrial Enterprise Noise at Boundary</i> (GB12348-2008); The distance between project plant site and the nearest sensitive site-Yushan village is 185 m, and the project noise after range attenuation has less effect on it, thus the acoustic environment can maintain the present status.	

Attached table 5.3-4 Summary Table of Noise Environmental Impact and Main Pollution Reduction Measures

Serial No.	Subproject Name	The analysis on the influence of solid waste	Mitigation measure
1	Anji County Gaoyu Water Plant	The sludge water of Gaoyu Water Plant becomes mud cake by mechanical dehydration after thickening by sludge thickener. The sludge output is about 3.6 t/d (amount to oven dry sludge quantity of 0.9 t/d with 75% water content) and the oven dry sludge quantity in total is 1.6 t (584 t/a), which shall be disposed by transported outside. The domestic garbage output is 18 kg/d, and the annual domestic garbage output is 0.657 t/a. Environmental sanitation department in Gaoyu Town shall be entrusted to clear uniformly.	1. The sludge water of Gaoyu Water Plant in Anji County becomes mud cake by mechanical dehydration after thickening by sludge thickener. The mud cake shall be delivered to the incinerator of Anji Wangneng Renewable Resources Utilization Co., Ltd. for incineration disposal. Environmental sanitation department in Gaoyu Town shall be entrusted to clear the domestic garbage uniformly.
2	Anji County Banshan Water Plant	The sludge water generated by Banshan Water Plant daily is 6.4 t (90% water content), amounting to oven dry sludge quantity of 0.64 t/d, namely 233.6 t/a, which shall be delivered outside to dispose. The domestic garbage output is 14.4kg/d, and the annual domestic garbage output is 5.256t/a. Environmental sanitation department in Banshan Town shall be entrusted to clear uniformly.	1. The sludge water of Banshan Water Plant in Anji County becomes mud cake by mechanical dehydration after thickening by sludge thickener. The mud cake shall be delivered to the incinerator of Anji Wangneng Renewable Resources Utilization Co., Ltd. for incineration disposal. Environmental sanitation department in

Serial No.	Subproject Name	The analysis on the influence of solid waste	Mitigation measure
			Gaoyu Town shall be entrusted to clear the domestic garbage uniformly.
3	Longquan City Nandayang Water Plant	The domestic garbage shall be cleared by environmental sanitation department regularly after bagging. For dehydrated sludge, temporary storage point shall be set in plant area with hardening of ground cement, cofferdam all around, ceiling coverage. After temporary storage, it shall be transported to Gaotang municipal solid waste landfill in Longquan city regularly by entrusting environmental sanitation department for sanitary landfill, which has less effect on ambient environment.	The living garbage and sludge are delivered to the sanitary garbage landfill of Gaotang of Longquan City to be sanitarly filled.
4	Anji Meixi Sewage Disposal Plant	The solid waste of Meixi Sewage Disposal Plant is mainly sediment, sand setting and excess sludge discharged by disposal system and the worker's domestic garbage, among which the screen sediment is 1.5 t/d, the sand in grit chamber is 0.6 t/d, the excess sludge (after dehydration) is 2.52 t/d and the domestic garbage is 0.054 t/d. It shall be delivered to the incinerator of Anji Wangneng Renewable Resources Utilization Co., Ltd. for incineration disposal.	The canopy should be set in sludge storage yard of Meixi Sewage Plant in Anji County with collecting tank all around. The sludge shall be delivered to the incinerator of Anji Wangneng Renewable Source Utilization Co., Ltd. for incineration disposal.
5	Anji Urban Sewage Disposal Plant	The solid waste of Meixi Sewage Disposal Plant is mainly sediment, sand setting and excess sludge discharged by disposal system and the worker's domestic garbage, among which the screen sediment is 3.8t/d, the sand in grit chamber is 1.5 t/d, the excess sludge (after dehydration) is 6.3 t/d and the domestic garbage is 0.034 t/d. It shall be delivered to the incinerator of Anji Wangneng Renewable Resources Utilization Co., Ltd. for incineration disposal.	The sludge is delivered to the incinerating furnace of Anji Wangneng Regeneration Resource Utilization Co., Ltd to be incinerated.
6	Project Phase IV of Fuyang Sewage Disposal Plant	The solid waste of the project phase IV for Fuyang Sewage Disposal Plant is mainly sediment, sand setting and excess sludge discharged by disposal system and the worker's domestic garbage, among which the screen sediment is 6 t/d, the sand in grit chamber is 3 t/d, the excess sludge (after dehydration) is 8.4 t/d. The squeezed sediment, sand residue and domestic garbage shall be delivered to waste transfer station to dispose by entrusting environmental sanitation department after collected by solid waste collecting device. The sludge generated shall be handed over to Zhejiang Qingyuan Ecological Thermoelectricity Co., Ltd. for incineration disposal. At present, Daily disposed sludge for the sludge incineration project phase I of Zhejiang Qingyuan Ecological Thermoelectricity Co., Ltd. is 1500 t (80% water	The sludge is delivered to incineration disposal facilities of Zhejiang Qingyuan Ecological Thermoelectricity Co., Ltd. for intensive incineration after thickening and dehydration in plant area.

Serial No.	Subproject Name	The analysis on the influence of solid waste	Mitigation measure
		content). 3 (2 in normal use, 1 for standby application) circulated fluidized bed sludge incinerator are adopted with evaporation capacity of 65 t/h, and 2 12MW extraction condensing steam turbine generator set are equipped; Daily disposed sludge in phase II is 2400 t, 3 circulated fluidized bed sludge incinerator are adopted with evaporation capacity of 110 t/d, and 1 B15MW and 1 B25MW steam turbine generator set are built. The phase I and II have been completed currently, which can satisfy the newly increased demand for 13.8t daily disposed sludge of this project.	
7	Fuyang Longyang Sewage Disposal Plant	The sludge output is only 0.8 t/d after thickening by sludge thickener, which is temporarily sucked by fecal suction truck at regular interval and delivered to Qingquan Environmental Thermal Power Plant for incineration disposal. Sludge dewatering system shall be built in the phase II for properly disposing sludge, which shall have no adverse influence on ambient environment.	The sludge shall be sucked by fecal suction truck at regular interval and delivered to Qingquan Environmental Thermal Power Plant for incineration disposal.
8	Sewage disposal plant in Anren Town of Longquan City	The output of sediment and garbage sundries is 3.2 kg/d, the domestic garbage is 1.2 kg/d and the excess sludge is 1.6 kg/d after condensation. The sediment, garbage sundries and domestic garbage is cleared by entrusting environmental sanitation department, which shall be delivered to municipal solid waste landfill in Longquan City for landfill disposal; the excess sludge shall be used in farmland as soil conditioner or fertilizer after composting process and composition determination, conforming to the fertilizer standard. Thus the project solid waste normally has no obvious adverse influence on ambient environment.	1. The garbage sundries and domestic garbage shall be cleared at regular intervals by entrusting environmental sanitation department and delivered to municipal solid waste landfill in Longquan City for landfill disposal. Sludge after filter pressing and dehydration is done with composting process, and the compost is used for the farmland or mountain land near the project.
9	Sewage disposal plant in Badu Town of Longquan City	The output of sediment and garbage sundries is 2.2kg/d, the domestic garbage is 1.2 kg/d and the excess sludge is 1.1 kg/d after condensation. The sediment, garbage sundries and domestic garbage is cleared by entrusting environmental sanitation department, which shall be delivered to municipal solid waste landfill in Longquan City for landfill disposal; the excess sludge shall be used in farmland as soil conditioner or fertilizer after composting process and composition determination, conforming to the fertilizer standard. Thus the project solid waste normally has no obvious adverse influence on ambient environment.	
10	Sewage disposal plant in Chatian Town of	The output of sediment and garbage sundries is 1.0kg/d, the domestic garbage is 0.5 kg/d and the excess sludge is 0.6kg/d after condensation. The sediment, garbage sundries and domestic garbage is cleared by entrusting	

Serial No.	Subproject Name	The analysis on the influence of solid waste	Mitigation measure
	Longquan City	environmental sanitation department, which shall be delivered to municipal solid waste landfill in Longquan City for landfill disposal; the excess sludge shall be used in farmland as soil conditioner or fertilizer after composting process and composition determination, conforming to the fertilizer standard. Thus the project solid waste normally has no obvious adverse influence on ambient environment.	
11	Sewage disposal plant in Lanju Town of Longquan City	The output of sediment and garbage sundries is 0.15 t/d, the domestic garbage is 0.0024 t/d and the excess sludge is 0.5 t/d after condensation. The sediment, garbage sundries and domestic garbage is cleared by entrusting environmental sanitation department, which shall be delivered to municipal solid waste landfill in Longquan City for landfill disposal; the excess sludge shall be used in farmland as soil conditioner or fertilizer after composting process and composition determination, conforming to the fertilizer standard. Thus the project solid waste normally has no obvious adverse influence on ambient environment.	
12	Sewage disposal plant in Xiaomei Town of Longquan City	The output of sediment and garbage sundries is 1.0kg/d, the domestic garbage is 0.5 kg/d and the excess sludge is 0.9 kg/d after condensation. The sediment, garbage sundries and domestic garbage is cleared by entrusting environmental sanitation department, which shall be delivered to municipal solid waste landfill in Longquan City for landfill disposal; the excess sludge shall be used in farmland as soil conditioner or fertilizer after composting process and composition determination, conforming to the fertilizer standard. Thus the project solid waste normally has no obvious adverse influence on ambient environment.	
13	Tiantai Cangshan Sewage Disposal Plant	The solid waste of Cangshan Sewage Disposal Plant is mainly the sediment, sand setting, excess sludge and worker's domestic garbage, among which the screen sediment is 255 t/a, the sand in grit chamber is 36 t/a, the excess sludge (after dehydration) is 4088 t/d and the domestic garbage is 3 t/a. The domestic garbage shall be cleared and disposed at regular intervals by environmental sanitation department, and other solid waste shall be delivered to the refuse landfill in Tiantai County for landfill.	The domestic garbage shall be cleared and disposed by environmental sanitation department at regular intervals and other solid waste shall be delivered to the refuse landfill in Tiantai County for landfill.
14	Other general requirements		The solidified sludge shall be transported outward by special vehicle during transporting, and the sludge-transport vehicle shall be sealed, waterproof and free from leakage, and ledges around the

Serial No.	Subproject Name	The analysis on the influence of solid waste	Mitigation measure
			vehicle shall be firm, reliable, unbroken and tight in baffle; before driving out of the loading site, the vehicle ledges and wheels shall be washed clear without mud or leaking on the way; in case of leakage found during transporting, it shall be timely cleaned up. Sludge transporting shall be kept away from the resident gathering points, water conservation districts, place of interest, resort districts and other environmental sensitive areas as possible. The sludge transportation shall be signed and confirmed by the landfill site or sludge incineration plant.