

Parent Company: -  
 Report Date: 18-May-2018  
 ZDHCID: A6020A36

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**DETAILED PERFORMANCE BREAKDOWN**

The section below shows the detailed results from your Laboratory test report in context with the ZDHC Wastewater guidelines and scoring methodology.



	INCOMING WATER		RAW WASTEWATER		SLUDGE		TREATED WASTEWATER		
Conventional Legend:	NOT ANALYSED		NOT ANALYSED				3.45% 10.34%                      27.59%  6.90%  51.72%		
MRSL Legend:	NOT ANALYSED		NOT ANALYSED				0.00% 0.00%  100.00%		
CHEMICAL NAME	UNIT	UNIT	UNIT	UNIT	UNIT	UNIT	UNIT	STANDARD TEST METHODS	
	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER					
<b>Anions</b>									
Cyanide					ND		ND		-
Sulfide					NA		ND		-
Sulfite					NA		1.390000	mg/l	-
<b>Conventional Parameters</b>									
Ammonium-N					NA		ND		-
AOX					NA		0.540000	mg/l	-
BOD5					NA		39.400000	mg/l	-
COD					NA		294.000000	mg/l	-
Coliform					NA		ND		-
Colour					NA		4.9;1.7;0.9	m <sup>1</sup> (436nm; 525nm; 620nm)	-
Oil and Grease					NA		2.340000	mg/l	-
Persistent Foam									-
pH					NA		ND		-
Phenol					NA		ND		-
Temperature					NA		ND		-
Total-N					NA		4.970000	mg/l	-
Total-P					NA		ND		-
TSS					NA		ND		-

	INCOMING WATER		RAW WASTEWATER		SLUDGE		TREATED WASTEWATER		
<b>Metals</b>									
Antimony					NA		0.816500	mg/l	-
Arsenic					1.200000	mg/l	ND		-
Cadmium					ND		ND		-
Chromium (VI)					ND		ND		-
Chromium, total					NA		0.002000	mg/l	-
Cobalt					NA		0.002000	mg/l	-
Copper					NA		0.045200	mg/l	-
Lead					4.100000	mg/l	0.004900	mg/l	-
Mercury					1.200000	mg/l	0.000170	mg/l	-
Nickel					NA		0.001900	mg/l	-
Silver					NA		ND		-
Zinc					NA		0.134300	mg/l	-
<b>Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers</b>									
Nonylphenol (NP), mixed isomers					ND		ND		-
Nonylphenol ethoxylates (NPEO)					ND		ND		-
Octylphenol (OP), mixed isomers					ND		ND		-
Octylphenol ethoxylates (OPEO)					ND		ND		-
<b>Flame Retardants</b>									
2,2-bis(bromomethyl)-1,3-propane - diol (BBMP)					ND		ND		-
Bis(2,3-dibromopropyl)phosphate (BIS)					ND		ND		-
Decabromodiphenyl ether (DecaBDE)					ND		ND		-
Hexabromocyclododecane (HBCDD)					ND		ND		-
Octabromodiphenyl ether (OctaBDE)					ND		ND		-
Pentabromodiphenyl ether (PentaBDE)					ND		ND		-
Polybromobiphenyls (PBB)					ND		ND		-
Short-chainchlorinated Paraffins (SCCP) (C10-C13)					ND		ND		-
Tetrabromobisphenol A(TBBPA)					ND		ND		-
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)					ND		ND		-
Tris(1-aziridinyl)phosphine oxide (TEPA)					ND		ND		-
Tris(2,3-dibromopropyl)-phosphate (TRIS)					ND		ND		-
Tris(2-chloroethyl)phosphate (TCEP)					ND		ND		-
<b>Organotin Compounds</b>									
Dibutyltin (DBT)					ND		ND		-
Mono-, di- andtri-butyltin derivatives					ND		ND		-
Mono-, di- andtri-methyltin derivatives					ND		ND		-
Mono-, di- andtri-octyltin derivatives					ND		ND		-
Mono-, di- andtri-phenyltin derivatives					ND		ND		-
<b>Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>									
6:2 FTOH					ND		ND		-
8:2 FTOH					ND		ND		-
PFBS					ND		ND		-
PFHxA					ND		ND		-
PFOA					ND		ND		-
PFOS					ND		ND		-

	INCOMING WATER		RAW WASTEWATER		SLUDGE		TREATED WASTEWATER	
<b>Chlorophenols</b>								
2,3,4,5-tetrachlorophenol					ND		ND	-
2,3,4,6-tetrachlorophenol					ND		ND	-
2,3,4-trichlorophenol					ND		ND	-
2,3,5,6-tetrachlorophenol					ND		ND	-
2,3,5-trichlorophenol					ND		ND	-
2,3,6-trichlorophenol					ND		ND	-
2,3-dichlorophenol					ND		ND	-
2,4,5-trichlorophenol					ND		ND	-
2,4,6-trichlorophenol					ND		ND	-
2,4-dichlorophenol					ND		ND	-
2,5-dichlorophenol					ND		ND	-
2,6-dichlorophenol					ND		ND	-
2-chlorophenol					ND		ND	-
3,4,5-trichlorophenol					ND		ND	-
3,4-dichlorophenol					ND		ND	-
3,5-dichlorophenol					ND		ND	-
3-chlorophenol					ND		ND	-
4-chlorophenol					ND		ND	-
Pentachlorophenol					ND		ND	-
Tetrachlorophenol (TeCP)					ND		ND	-
<b>Dyes - Azo (Forming Restricted Amines)</b>								
2,4,5-trimethylaniline					ND		ND	-
2,4-xylydine					ND		ND	-
2,6-xylydine					ND		ND	-
2-naphthylamine					ND		ND	-
3,3'-dichlorobenzidine					ND		ND	-
3,3'-dimethoxybenzidine					ND		ND	-
3,3'-dimethylbenzidine					ND		ND	-
3,3'-dichlorobenzidine					ND		ND	-
4,4'-methylene-bis-(2-chloro-aniline)					ND		ND	-
4,4'-methylenedi-o-toluidine					ND		ND	-
4,4'-methylenedianiline					ND		ND	-
4,4'-oxydianiline					ND		ND	-
4,4'-thiodianiline					ND		ND	-
4-aminoazobenzene					ND		ND	-
4-aminodiphenyl					ND		ND	-
4-chloro-o-toluidine					ND		ND	-
4-chloroaniline					ND		ND	-
4-methoxy-m-phenylenediamine					ND		ND	-
4-methyl-m-phenylenediamine					ND		ND	-
5-nitro-o-toluidine					ND		ND	-
6-methoxy-m-toluidine					ND		ND	-
Benzidine					ND		ND	-
o-aminoazotoluene					ND		ND	-
o-anisidine					ND		ND	-
o-toluidine					ND		ND	-

	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER	
<b>Dyes - Carcinogenic</b>					
C.I. Acid Red 26			ND	ND	-
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)			ND	ND	-
C.I. Basic Green 4 (malachite greenchloride)			ND	ND	-
C.I. Basic Green 4 (malachite greenoxalate)			ND	ND	-
C.I. Basic Green 4 (malachite green)			ND	ND	-
C.I. Basic Red 9			ND	ND	-
C.I. Basic Violet 14			ND	ND	-
C.I. Direct Black 38			ND	ND	-
C.I. Direct Blue 6			ND	ND	-
C.I. Direct Red 28			ND	ND	-
C.I. Disperse Blue 1			ND	ND	-
C.I. Disperse Blue 3			ND	ND	-
Disperse Orange 11			ND	ND	-
<b>Dyes - Disperse (Sensitizing)</b>					
Disperse Blue 102			ND	ND	-
Disperse Blue 106			ND	ND	-
Disperse Blue 124			ND	ND	-
Disperse Blue 26			ND	ND	-
Disperse Blue 35			ND	ND	-
Disperse Blue 7			ND	ND	-
Disperse Brown 1			ND	ND	-
Disperse Orange 1			ND	ND	-
Disperse Orange 3			ND	ND	-
Disperse Orange 37/59/76			ND	ND	-
Disperse Red 1			ND	ND	-
Disperse Red 11			ND	ND	-
Disperse Red 17			ND	ND	-
Disperse Yellow 1			ND	ND	-
Disperse Yellow 3			ND	ND	-
Disperse Yellow 39			ND	ND	-
Disperse Yellow 49			ND	ND	-
Disperse Yellow 9			ND	ND	-
<b>Halogenated Solvents</b>					
1,2-dichloroethane			ND	ND	-
Methylene chloride			ND	ND	-
Tetrachloroethylene			ND	ND	-
Trichloroethylene			ND	ND	-

	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER	
<b>Chlorobenzenes and Chlorotoluenes</b>					
1,2,3,4-Tetrachlorobenzene			ND	ND	-
1,2,3,5-Tetrachlorobenzene			ND	ND	-
1,2,3-Trichlorobenzene			ND	ND	-
1,2,4,5-Tetrachlorobenzene			ND	ND	-
1,2,4-Trichlorobenzene			ND	ND	-
1,2-Dichlorobenzene			ND	ND	-
1,3,5-Trichlorobenzene			ND	ND	-
1,3-Dichlorobenzene			ND	ND	-
1,4-Dichlorobenzene			ND	ND	-
2,3,4,5-Tetrachlorotoluene			ND	ND	-
2,3,4,6-Tetrachlorotoluene			ND	ND	-
2,3,4-Trichlorotoluene			ND	ND	-
2,3,5,6-Tetrachlorotoluene			ND	ND	-
2,3,6-Trichlorotoluene			ND	ND	-
2,3-Dichlorotoluene			ND	ND	-
2,4,5-Trichlorotoluene			ND	ND	-
2,4,6-Trichlorotoluene			ND	ND	-
2,4-Dichlorotoluene			ND	ND	-
2,5-Dichlorotoluene			ND	ND	-
2,6-Dichlorotoluene			ND	ND	-
2-Chlorotoluene			ND	ND	-
3,4,5-Trichlorotoluene			ND	ND	-
3,4-Dichlorotoluene			ND	ND	-
3,5-Dichlorotoluene			ND	ND	-
3-Chlorotoluene			ND	ND	-
4-Chlorotoluene			ND	ND	-
Alpha, alpha, alpha, 4-tetrachlorotoluene			ND	ND	-
Alpha, alpha, alpha,2,6-tetrachlorotoluene			ND	ND	-
Alpha, alpha,2,6-tetrachlorotoluene			ND	ND	-
Alpha,2,4-Trichlorotoluene			ND	ND	-
Alpha,2,6-Trichlorotoluene			ND	ND	-
Alpha,3,4-Trichlorotoluene			ND	ND	-
Hexachlorobenzene			ND	ND	-
Monochlorobenzene			ND	ND	-
Pentachlorobenzene			ND	ND	-
Pentachlorotoluene			ND	ND	-
<b>Glycols</b>					
2-ethoxyethanol			ND	ND	-
2-ethoxyethyl acetate			ND	ND	-
2-methoxyethanol			ND	ND	-
2-methoxyethylacetate			ND	ND	-
2-methoxypropylacetate			ND	ND	-
Bis(2-methoxyethyl)-ether			ND	ND	-
Ethylene glycol dimethyl ether			ND	ND	-
Triethyleneglycoldimethylether			ND	ND	-

	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER
<b>Otho-Phthalates - Including all ortho esters of phthalic acid</b>				
1,2-benzenedicarboxylic acid, di-C6-8-branchedalkyl esters, C7-rich(DIHP)			ND	ND
1,2-benzenedicarboxylic acid, di-C7-11-branchedandlinear alkyl esters (DHNUP)			ND	ND
Bis(2-methoxyethyl) phthalate (DMEP)			ND	ND
Butyl benzyl phthalate (BBP)			ND	ND
Di(ethylhexyl) phthalate (DEHP)			ND	ND
Di-cyclohexyl phthalate (DCHP)			ND	ND
Di-iso-decyl phthalate (DIDP)			ND	ND
Di-iso-octyl phthalate (DIOP)			ND	ND
Di-isobutyl phthalate (DIBP)			ND	ND
Di-isononyl phthalate (DINP)			ND	ND
Di-n-hexyl phthalate (DnHP)			ND	ND
Di-n-octyl phthalate (DNOP)			ND	ND
Di-n-propyl phthalate (DPRP)			ND	ND
Dibutyl phthalate (DBP)			ND	ND
Diethyl phthalate (DEP)			ND	ND
Dinonyl phthalate (DNP)			ND	ND
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>				
Acenaphthene			ND	ND
Acenaphthylene			ND	ND
Anthracene			ND	ND
Benzo[a]anthracene			ND	ND
Benzo[a]pyrene (BaP)			ND	ND
Benzo[b]fluoranthene			ND	ND
Benzo[e]pyrene			ND	ND
Benzo[ghi]perylene			ND	ND
Benzo[j]fluoranthene			ND	ND
Benzo[k]fluoranthene			ND	ND
Chrysene			ND	ND
Dibenz[a,h]anthracene			ND	ND
Fluoranthene			ND	ND
Fluorene			ND	ND
Indeno[1,2,3-cd]pyrene			ND	ND
Naphthalene			ND	ND
Phenanthrene			ND	ND
Pyrene			ND	ND
<b>Volatile Organic Compounds (VOC)</b>				
Benzene			ND	ND
m-Cresol			ND	ND
o-Cresol			ND	ND
p-Cresol			ND	ND
Xylene			ND	ND

### SAMPLE INFORMATION

The section below summarises the information regarding the samples and the testing laboratory.

SAMPLE DETAILS		LABORATORY DETAILS	
Sample Collection	27-Mar-2018	Laboratory	Intertek Testing Services Taiwan Ltd
Duration Date	23-Apr-2018      22-Oct-2018	Lab Test Reference	TWNC00681404
ZDHC Test ID	TR779HJ21	ZDHC Lab Status	PROVISIONALLY ACCEPTED(19-OCT-2017)
Sample Notes		Address	8F, No. 423 Ruiguang Rd., Neihu Dist. Taipei 11492 Neihu Taipei Taiwan
		Contact Name	Josephine Chang
		Contact E-mail	josephine.chang@intertek.com