

Parent Company: -
 Report Date: 18-May-2018
 HIGG ID: [REDACTED]
 ZDHC ID: A161SZ58

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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: Aspirational Progressive Foundational Alert Not Analysed	0.00%	0.00%	NOT ANALYSED				3.45%	3.45%	
		0.00%					6.90%	20.69%	
		0.00%							
	100.00%						65.52%		
MRSL Legend: Meets Requirements Doesn't Meet Requirements Not Analysed	0.00%	0.00%	NOT ANALYSED				0.00%		
		0.00%					0.00%		
	100.00%						100.00%		
CHEMICAL NAME	UNIT	UNIT	UNIT	UNIT	UNIT	UNIT	UNIT	STANDARD TEST METHODS	
	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER					
Anions									
Cyanide	NA			5.400000	mg/l	ND		-	
Sulfide	NA			NA		0.020000	mg/l	-	
Sulfite	NA			NA		ND		-	
Conventional Parameters									
Ammonium-N	NA			NA		ND		-	
AOX	NA			NA		ND		-	
BOD5	NA			NA		7.000000	mg/l	-	
COD	NA			NA		87.000000	mg/l	-	
Coliform	NA			NA		70.000000	bacteria/100 ml	-	
Colour	NA			NA		7.2:2.6:0.5	m ¹ (436nm; 525nm; 620nm)	-	
Oil and Grease	NA			NA		0.700000	mg/l	-	
Persistent Foam								-	
pH	NA			NA		6.8	-	-	
Phenol	NA			NA		0.003000	mg/l	-	
Temperature	NA			NA		25.300000	C	-	
Total-N	NA			NA		ND		-	
Total-P	NA			NA		ND		-	
TSS	NA			NA		ND		-	

	INCOMING WATER		RAW WASTEWATER		SLUDGE		TREATED WASTEWATER		
Metals									
Antimony	NA				NA		0.270000	mg/l	-
Arsenic	NA				12.000000	mg/l	ND		-
Cadmium	NA				ND		ND		-
Chromium (VI)	NA				ND		ND		-
Chromium, total	NA				NA		ND		-
Cobalt	NA				NA		ND		-
Copper	NA				NA		ND		-
Lead	NA				10.000000	mg/l	ND		-
Mercury	NA				ND		ND		-
Nickel	NA				NA		ND		-
Silver	NA				NA		ND		-
Zinc	NA				NA		ND		-
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers									
Nonylphenol (NP), mixed isomers	NA				ND		ND		-
Nonylphenol ethoxylates (NPEO)	NA				ND		ND		-
Octylphenol (OP), mixed isomers	NA				ND		ND		-
Octylphenol ethoxylates (OPEO)	NA				ND		ND		-
Flame Retardants									
2,2-bis(bromomethyl)-1,3-propane - diol (BBMP)	NA				ND		ND		-
Bis(2,3-dibromopropyl)phosphate (BIS)	NA				ND		ND		-
Decabromodiphenyl ether (DecaBDE)	NA				ND		ND		-
Hexabromocyclododecane (HBCDD)	NA				ND		ND		-
Octabromodiphenyl ether (OctaBDE)	NA				ND		ND		-
Pentabromodiphenyl ether (PentaBDE)	NA				ND		ND		-
Polybromobiphenyls (PBB)	NA				ND		ND		-
Short-chainchlorinated Paraffins (SCCP) (C10-C13)	NA				ND		ND		-
Tetrabromobisphenol A(TBBPA)	NA				ND		ND		-
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	NA				ND		ND		-
Tris(1-aziridinyl)phosphine oxide (TEPA)	NA				ND		ND		-
Tris(2,3-dibromopropyl)-phosphate (TRIS)	NA				ND		ND		-
Tris(2-chloroethyl)phosphate (TCEP)	NA				ND		ND		-
Organotin Compounds									
Dibutyltin (DBT)	NA				ND		ND		-
Mono-, di- andtri-butyltin derivatives	NA				ND		ND		-
Mono-, di- andtri-methyltin derivatives	NA				ND		ND		-
Mono-, di- andtri-octyltin derivatives	NA				ND		ND		-
Mono-, di- andtri-phenyltin derivatives	NA				ND		ND		-
Perfluorinated and Polyfluorinated Chemicals (PFCs)									
6:2 FTOH	NA				ND		ND		-
8:2 FTOH	NA				ND		ND		-
PFBS	NA				ND		ND		-
PFHxA	NA				ND		ND		-
PFOA	NA				ND		ND		-
PFOS	NA				ND		ND		-

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

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

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

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

SAMPLE INFORMATION

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

SAMPLE DETAILS		LABORATORY DETAILS	
Sample Collection	09-Mar-2018	Laboratory	SGSTaiwan
Duration Date	10-Mar-2018 23-Mar-2018	Lab Test Reference	PX/2018/30039
ZDHCTest ID	TR754QW53	ZDHC Lab Status	PROVISIONALLY ACCEPTED(17-SEP-2017)
Sample Notes		Address	SL HL Product: a) No. 31, Wu Chyun Road, New taipei Industrial Park, Wu Ku District, New Taipei City 24886, Taiwan (ROC), 24886. b) No. 61, Kai fa Road, Nanzih Export Processing Zone, Kaohsiung 81170, Taiwan (ROC) 81170. Wastewater: No 136-11, Wu Kung Road, New Taipei Industrial Park, Wu Ku District, New Taipei City 24886 Wugu New Taipei Taiwan
		Contact Name	Cindy Chen
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