



## Analysis / Test Report

**Report to :** Hemaraj Land And Development Public Co., Ltd.  
331/8-9 Moo 2, High Way 331 Road,  
Tambol Bowin, Amphur Sriracha, Chonburi  
Thailand 20160

**Attn :** Kandaraj Jaikwang

**Phone :** 0-3834-5234

**Fax :** 0-3834-5233

**Email :** kandaraj@hemaraj.com

**Project Name :** Monitoring

**Location :** HESIE(2)

**P/O :**

**Lot ID: 1759655**

Date Received : Sep 13, 2017

Date Reported : Sep 22, 2017

Report Number : 953129-1 Rev. No.1

Sampling by : Pitthaya Thongtaeng

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<b>Reference Number</b>	1759655-1
<b>Sampling Date</b>	Sep 13, 2017 2:40 PM
<b>Sample Description</b>	Soil
<b>Location</b>	บริเวณจุดพื้นที่สีเขียวที่มีการนำน้ำทิ้งไปใช้รดน้ำต้นไม้ จุดที่ 1 (GPS 1454488, 734251)
<b>Condition of Sample</b>	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
<b>Date of Analysis</b>	Sep 14, 2017

Analyte	Unit	LOD	Result	Guideline Limit	Method
<b>Metals Testing</b>					
Hexavalent Chromium	mg/kg	-	<1.00	≤640	Based on US EPA, Method 3060A and 7196A
Mercury	mg/kg	-	<0.10	≤610	Based on US EPA, Method 7471B
Arsenic	mg/kg	-	5.65	≤27	Based on US EPA, Method 3050B and 6010B
Cadmium	mg/kg	-	<0.50	≤810	Based on US EPA, Method 3050B and 6010B
Lead	mg/kg	-	8.06	≤750	Based on US EPA, Method 3050B and 6010B
Manganese	mg/kg	-	157	≤32000	Based on US EPA, Method 3050B and 6010B
Nickel	mg/kg	-	2.33	≤41000	Based on US EPA, Method 3050B and 6010B
Selenium	mg/kg	-	0.83	≤10000	Based on US EPA, Method 3050B and 6010B

Guideline: Notification of National Environmental Board No. 25, B.E. 2547 (2004) issued under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992) published in the Royal Government Gazette No. 121 Special Part 119 D dated October 20, B.E.2547 (Soil Quality Standard for Other Purposes)

Note:

This Analysis test report is reissued to supersede report no. 953129-1, Date Reported : Sep 21, 2017

Approved by

Chanattagarn Imchom  
Supervisor

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Sampling by : Pitthaya Thongtaeng

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<b>Reference Number</b>	1759655-2
<b>Sampling Date</b>	Sep 13, 2017 11:20 AM
<b>Sample Description</b>	Soil
<b>Location</b>	บริเวณจุดพื้นที่สีเขียวที่มีการนำน้ำทิ้งไปใช้รดน้ำต้นไม้ จุดที่ 2 (GPS 1452904, 799896)
<b>Condition of Sample</b>	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
<b>Date of Analysis</b>	Sep 14, 2017

Analyte	Unit	LOD	Result	Guideline Limit	Method
<b>Metals Testing</b>					
Hexavalent Chromium	mg/kg	-	<1.00	≤640	Based on US EPA, Method 3060A and 7196A
Mercury	mg/kg	-	<0.10	≤610	Based on US EPA, Method 7471B
Arsenic	mg/kg	-	5.74	≤27	Based on US EPA, Method 3050B and 6010B
Cadmium	mg/kg	-	<0.50	≤810	Based on US EPA, Method 3050B and 6010B
Lead	mg/kg	-	14.8	≤750	Based on US EPA, Method 3050B and 6010B
Manganese	mg/kg	-	72.3	≤32000	Based on US EPA, Method 3050B and 6010B
Nickel	mg/kg	-	1.16	≤41000	Based on US EPA, Method 3050B and 6010B
Selenium	mg/kg	-	0.54	≤10000	Based on US EPA, Method 3050B and 6010B

Guideline: Notification of National Environmental Board No. 25, B.E. 2547 (2004) issued under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992) published in the Royal Government Gazette No. 121 Special Part 119 D dated October 20, B.E.2547 (Soil Quality Standard for Other Purposes)

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<b>Reference Number</b>	1759655-3
<b>Sampling Date</b>	Sep 13, 2017 3:00 PM
<b>Sample Description</b>	Soil
<b>Location</b>	บริเวณจุดพื้นที่สีเขียวที่มีการนำน้ำทิ้งไปไซรด์น้ำต้นไม้ จุดที่ 3 (GPS 1451408, 734087)
<b>Condition of Sample</b>	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
<b>Date of Analysis</b>	Sep 14, 2017

Analyte	Unit	LOD	Result	Guideline Limit	Method
<b>Metals Testing</b>					
Hexavalent Chromium	mg/kg	-	<1.00	≤640	Based on US EPA, Method 3060A and 7196A
Mercury	mg/kg	-	<0.10	≤610	Based on US EPA, Method 7471B
Arsenic	mg/kg	-	2.50	≤27	Based on US EPA, Method 3050B and 6010B
Cadmium	mg/kg	-	<0.50	≤810	Based on US EPA, Method 3050B and 6010B
Lead	mg/kg	-	7.90	≤750	Based on US EPA, Method 3050B and 6010B
Manganese	mg/kg	-	19.8	≤32000	Based on US EPA, Method 3050B and 6010B
Nickel	mg/kg	-	1.22	≤41000	Based on US EPA, Method 3050B and 6010B
Selenium	mg/kg	-	0.54	≤10000	Based on US EPA, Method 3050B and 6010B

Guideline: Notification of National Environmental Board No. 25, B.E. 2547 (2004) issued under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992) published in the Royal Government Gazette No. 121 Special Part 119 D dated October 20, B.E.2547 (Soil Quality Standard for Other Purposes)

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Remark :

1. LOD : Limit of Detection
2. "<" : Lower than LOQ (Limit of Quantitation)

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