

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศโดยทั่วไป



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101644

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3099052-1

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Sample Description Air Quality
Location ร่มรั้วโครงการด้านทิศตะวันออก (A1) (GPS 47P 0726247, 1447576)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101644-1 Sep 27, 2024	24101644-2 Sep 28, 2024	24101644-3 Sep 29, 2024	24101644-4 Sep 30, 2024	24101644-5 Oct 01, 2024	24101644-6 Oct 02, 2024	24101644-7 Oct 03, 2024
Time							
09:00 AM - 10:00 AM	0.0098	0.0059	0.0039	0.0085	0.0079	0.0056	0.0080
10:00 AM - 11:00 AM	0.0115	0.0076	0.0068	0.0101	0.0062	0.0054	0.0076
11:00 AM - 12:00 PM	0.0082	0.0031	0.0046	0.0087	0.0033	0.0029	0.0069
12:00 PM - 01:00 PM	0.0062	0.0020	0.0037	0.0062	0.0030	0.0028	0.0042
01:00 PM - 02:00 PM	0.0060	0.0027	0.0036	0.0051	0.0029	0.0042	0.0049
02:00 PM - 03:00 PM	0.0083	0.0038	0.0047	0.0028	0.0052	0.0037	0.0068
03:00 PM - 04:00 PM	0.0052	0.0042	0.0048	0.0039	0.0049	0.0033	0.0056
04:00 PM - 05:00 PM	0.0057	0.0075	0.0062	0.0067	0.0080	0.0042	0.0046
05:00 PM - 06:00 PM	0.0082	0.0108	0.0121	0.0130	0.0114	0.0053	0.0053
06:00 PM - 07:00 PM	0.0076	0.0095	0.0165	0.0160	0.0110	0.0051	0.0039
07:00 PM - 08:00 PM	0.0250	0.0161	0.0180	0.0201	0.0126	0.0063	0.0038
08:00 PM - 09:00 PM	0.0151	0.0131	0.0214	0.0268	0.0164	0.0059	0.0146
09:00 PM - 10:00 PM	0.0141	0.0123	0.0187	0.0269	0.0208	0.0065	0.0102
10:00 PM - 11:00 PM	0.0085	0.0099	0.0128	0.0162	0.0193	0.0066	0.0100
11:00 PM - 12:00 AM	0.0063	0.0079	0.0106	0.0168	0.0127	0.0059	0.0117
12:00 AM - 01:00 AM	0.0040	0.0062	0.0071	0.0129	0.0097	0.0048	0.0120
01:00 AM - 02:00 AM	0.0032	0.0039	0.0034	0.0078	0.0068	0.0038	0.0145
02:00 AM - 03:00 AM	0.0022	0.0031	0.0016	0.0058	0.0054	0.0029	0.0130
03:00 AM - 04:00 AM	0.0014	0.0019	0.0020	0.0048	0.0037	0.0019	0.0075
04:00 AM - 05:00 AM	0.0007	0.0017	0.0021	0.0046	0.0023	0.0027	0.0033
05:00 AM - 06:00 AM	0.0013	0.0021	0.0011	0.0035	0.0025	0.0027	0.0034
06:00 AM - 07:00 AM	0.0014	0.0035	0.0013	0.0034	0.0016	0.0028	0.0052
07:00 AM - 08:00 AM	0.0038	0.0036	0.0007	0.0055	0.0032	0.0031	0.0058
08:00 AM - 09:00 AM	0.0056	0.0040	0.0035	0.0069	0.0041	0.0078	0.0087
Average	0.0071	0.0061	0.0071	0.0101	0.0077	0.0044	0.0076
1hr - Maximum	0.0250	0.0161	0.0214	0.0269	0.0208	0.0078	0.0146
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101644

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139697-1

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Sample Description Air Quality
Location บริเวณสถานีไฟฟ้ายม (A2) (GPS 47P 0726077, 1447565)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101644-8 Sep 27, 2024	24101644-9 Sep 28, 2024	24101644-10 Sep 29, 2024	24101644-11 Sep 30, 2024	24101644-12 Oct 01, 2024	24101644-13 Oct 02, 2024	24101644-14 Oct 03, 2024
Time							
10:00 AM - 11:00 AM	0.0042	0.0059	0.0055	0.0022	0.0014	0.0029	0.0028
11:00 AM - 12:00 PM	0.0049	0.0025	0.0046	0.0023	0.0017	0.0045	0.0044
12:00 PM - 01:00 PM	0.0037	0.0028	0.0030	0.0024	0.0019	0.0029	0.0039
01:00 PM - 02:00 PM	0.0036	0.0035	0.0028	0.0020	0.0021	0.0028	0.0038
02:00 PM - 03:00 PM	0.0025	0.0033	0.0041	0.0029	0.0037	0.0030	0.0052
03:00 PM - 04:00 PM	0.0055	0.0083	0.0091	0.0033	0.0087	0.0114	0.0134
04:00 PM - 05:00 PM	0.0280	0.0188	0.0168	0.0045	0.0192	0.0275	0.0192
05:00 PM - 06:00 PM	0.0232	0.0162	0.0166	0.0045	0.0143	0.0172	0.0166
06:00 PM - 07:00 PM	0.0203	0.0151	0.0191	0.0045	0.0151	0.0197	0.0235
07:00 PM - 08:00 PM	0.0212	0.0113	0.0058	0.0039	0.0118	0.0163	0.0246
08:00 PM - 09:00 PM	0.0106	0.0095	0.0031	0.0044	0.0086	0.0101	0.0188
09:00 PM - 10:00 PM	0.0099	0.0108	0.0031	0.0049	0.0074	0.0078	0.0119
10:00 PM - 11:00 PM	0.0096	0.0093	0.0033	0.0044	0.0063	0.0084	0.0085
11:00 PM - 12:00 AM	0.0099	0.0111	0.0037	0.0031	0.0060	0.0097	0.0081
12:00 AM - 01:00 AM	0.0101	0.0093	0.0039	0.0024	0.0058	0.0086	0.0116
01:00 AM - 02:00 AM	0.0102	0.0118	0.0037	0.0023	0.0053	0.0080	0.0139
02:00 AM - 03:00 AM	0.0081	0.0101	0.0033	0.0027	0.0044	0.0069	0.0121
03:00 AM - 04:00 AM	0.0085	0.0103	0.0035	0.0032	0.0043	0.0062	0.0089
04:00 AM - 05:00 AM	0.0082	0.0099	0.0016	0.0043	0.0048	0.0055	0.0092
05:00 AM - 06:00 AM	0.0099	0.0099	0.0021	0.0034	0.0070	0.0086	0.0083
06:00 AM - 07:00 AM	0.0072	0.0073	0.0024	0.0029	0.0062	0.0081	0.0043
07:00 AM - 08:00 AM	0.0041	0.0088	0.0026	0.0053	0.0046	0.0072	0.0039
08:00 AM - 09:00 AM	0.0035	0.0073	0.0023	0.0043	0.0034	0.0040	0.0056
09:00 AM - 10:00 AM	0.0034	0.0065	0.0024	0.0016	0.0027	0.0031	0.0077
Average	0.0096	0.0092	0.0054	0.0034	0.0065	0.0088	0.0104
1hr - Maximum	0.0280	0.0188	0.0191	0.0053	0.0192	0.0275	0.0246
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101644

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139699-1

Page 1 of 1

Sample Description Air Quality
Location วัดหมบฉนวนาราม (A3) (GPS 47P 0727879, 1451130)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

Time	24101644-15 Sep 27, 2024	24101644-16 Sep 28, 2024	24101644-17 Sep 29, 2024	24101644-18 Sep 30, 2024	24101644-19 Oct 01, 2024	24101644-20 Oct 02, 2024	24101644-21 Oct 03, 2024
12:00 PM - 01:00 PM	0.0020	0.0008	0.0008	0.0010	0.0004	0.0007	0.0005
01:00 PM - 02:00 PM	0.0005	0.0006	0.0006	0.0008	0.0003	0.0006	0.0005
02:00 PM - 03:00 PM	0.0003	0.0003	0.0006	0.0005	0.0003	0.0002	0.0002
03:00 PM - 04:00 PM	0.0002	0.0003	0.0025	0.0009	0.0003	0.0003	0.0009
04:00 PM - 05:00 PM	0.0004	0.0003	0.0015	0.0022	0.0007	0.0008	0.0008
05:00 PM - 06:00 PM	0.0003	0.0003	0.0014	0.0015	0.0006	0.0012	0.0008
06:00 PM - 07:00 PM	0.0001	0.0006	0.0006	0.0012	0.0007	0.0010	0.0008
07:00 PM - 08:00 PM	0.0001	0.0007	0.0006	0.0008	0.0004	0.0007	0.0009
08:00 PM - 09:00 PM	0.0001	0.0008	0.0005	0.0008	0.0003	0.0005	0.0007
09:00 PM - 10:00 PM	0.0001	0.0006	0.0005	0.0008	0.0005	0.0002	0.0006
10:00 PM - 11:00 PM	0.0004	0.0005	0.0005	0.0006	0.0005	0.0003	0.0006
11:00 PM - 12:00 AM	0.0004	0.0004	0.0005	0.0004	0.0005	0.0006	0.0008
12:00 AM - 01:00 AM	0.0004	0.0004	0.0005	0.0004	0.0005	0.0008	0.0008
01:00 AM - 02:00 AM	0.0004	0.0004	0.0005	0.0005	0.0007	0.0007	0.0007
02:00 AM - 03:00 AM	0.0006	0.0005	0.0005	0.0005	0.0005	0.0010	0.0008
03:00 AM - 04:00 AM	0.0013	0.0007	0.0013	0.0013	0.0007	0.0010	0.0015
04:00 AM - 05:00 AM	0.0023	0.0022	0.0026	0.0034	0.0016	0.0022	0.0021
05:00 AM - 06:00 AM	0.0018	0.0020	0.0018	0.0018	0.0012	0.0013	0.0013
06:00 AM - 07:00 AM	0.0014	0.0017	0.0013	0.0017	0.0010	0.0009	0.0009
07:00 AM - 08:00 AM	0.0012	0.0014	0.0013	0.0013	0.0011	0.0009	0.0008
08:00 AM - 09:00 AM	0.0022	0.0012	0.0012	0.0008	0.0009	0.0007	0.0012
09:00 AM - 10:00 AM	0.0009	0.0011	0.0011	0.0007	0.0007	0.0007	0.0011
10:00 AM - 11:00 AM	0.0009	0.0008	0.0010	0.0007	0.0008	0.0006	0.0011
11:00 AM - 12:00 PM	0.0009	0.0007	0.0010	0.0006	0.0007	0.0005	0.0011
Average	0.0008	0.0008	0.0010	0.0010	0.0007	0.0008	0.0009
1hr - Maximum	0.0023	0.0022	0.0026	0.0034	0.0016	0.0022	0.0021
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Approved by

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Orawan Rakyong
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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101644

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139700-1

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Sample Description Air Quality
Location วัดบ่อวิน (A4) (GPS 47P 0723647 ,1444280)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

Time	24101644-22 Sep 27, 2024	24101644-23 Sep 28, 2024	24101644-24 Sep 29, 2024	24101644-25 Sep 30, 2024	24101644-26 Oct 01, 2024	24101644-27 Oct 02, 2024	24101644-28 Oct 03, 2024
10:00 AM - 11:00 AM	0.0009	0.0012	0.0017	0.0015	0.0036	0.0016	0.0016
11:00 AM - 12:00 PM	0.0022	0.0018	0.0011	0.0026	0.0030	0.0016	0.0015
12:00 PM - 01:00 PM	0.0019	0.0022	0.0009	0.0014	0.0014	0.0016	0.0022
01:00 PM - 02:00 PM	0.0042	0.0008	0.0009	0.0013	0.0013	0.0017	0.0015
02:00 PM - 03:00 PM	0.0056	0.0010	0.0010	0.0011	0.0029	0.0026	0.0015
03:00 PM - 04:00 PM	0.0053	0.0015	0.0016	0.0023	0.0021	0.0017	0.0016
04:00 PM - 05:00 PM	0.0027	0.0021	0.0017	0.0029	0.0060	0.0032	0.0017
05:00 PM - 06:00 PM	0.0015	0.0014	0.0021	0.0021	0.0041	0.0037	0.0020
06:00 PM - 07:00 PM	0.0029	0.0021	0.0025	0.0032	0.0035	0.0033	0.0017
07:00 PM - 08:00 PM	0.0033	0.0125	0.0055	0.0042	0.0035	0.0035	0.0023
08:00 PM - 09:00 PM	0.0028	0.0020	0.0032	0.0019	0.0041	0.0021	0.0018
09:00 PM - 10:00 PM	0.0017	0.0015	0.0021	0.0018	0.0025	0.0014	0.0015
10:00 PM - 11:00 PM	0.0015	0.0015	0.0021	0.0019	0.0022	0.0016	0.0013
11:00 PM - 12:00 AM	0.0014	0.0012	0.0020	0.0017	0.0019	0.0015	0.0016
12:00 AM - 01:00 AM	0.0013	0.0012	0.0026	0.0016	0.0015	0.0016	0.0014
01:00 AM - 02:00 AM	0.0012	0.0013	0.0077	0.0023	0.0019	0.0017	0.0014
02:00 AM - 03:00 AM	0.0011	0.0013	0.0053	0.0037	0.0027	0.0015	0.0015
03:00 AM - 04:00 AM	0.0014	0.0016	0.0068	0.0076	0.0034	0.0024	0.0027
04:00 AM - 05:00 AM	0.0017	0.0023	0.0027	0.0049	0.0145	0.0047	0.0020
05:00 AM - 06:00 AM	0.0054	0.0051	0.0122	0.0111	0.0184	0.0057	0.0037
06:00 AM - 07:00 AM	0.0034	0.0089	0.0087	0.0059	0.0073	0.0037	0.0056
07:00 AM - 08:00 AM	0.0015	0.0061	0.0038	0.0063	0.0034	0.0024	0.0032
08:00 AM - 09:00 AM	0.0013	0.0023	0.0031	0.0027	0.0020	0.0015	0.0028
09:00 AM - 10:00 AM	0.0014	0.0018	0.0020	0.0045	0.0017	0.0016	0.0019
Average	0.0024	0.0027	0.0035	0.0034	0.0041	0.0024	0.0021
1hr - Maximum	0.0056	0.0125	0.0122	0.0111	0.0184	0.0057	0.0056
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101644

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139702-1

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Sample Description	Air Quality						
Location	วัดพันเสด็จนอก (A5) (GPS 47P 0729688, 1447669)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Sep 27, 2024 - Oct 04, 2024						
Measurement by	Anurak Tongkhajonsakda						
	24101644-29 Sep 27, 2024	24101644-30 Sep 28, 2024	24101644-31 Sep 29, 2024	24101644-32 Sep 30, 2024	24101644-33 Oct 01, 2024	24101644-34 Oct 02, 2024	24101644-35 Oct 03, 2024
Time							
11:00 AM - 12:00 PM	0.0012	0.0003	0.0075	0.0014	0.0006	0.0012	0.0005
12:00 PM - 01:00 PM	0.0008	0.0006	0.0061	0.0007	0.0005	0.0010	0.0010
01:00 PM - 02:00 PM	0.0007	0.0036	0.0041	0.0011	0.0009	0.0010	0.0006
02:00 PM - 03:00 PM	0.0010	0.0047	0.0027	0.0012	0.0009	0.0015	0.0017
03:00 PM - 04:00 PM	0.0006	0.0101	0.0166	0.0010	0.0027	0.0025	0.0007
04:00 PM - 05:00 PM	0.0005	0.0113	0.0030	0.0012	0.0012	0.0014	0.0006
05:00 PM - 06:00 PM	0.0014	0.0055	0.0041	0.0014	0.0011	0.0015	0.0005
06:00 PM - 07:00 PM	0.0005	0.0011	0.0415	0.0008	0.0009	0.0008	0.0009
07:00 PM - 08:00 PM	0.0004	0.0009	0.0325	0.0007	0.0011	0.0012	0.0005
08:00 PM - 09:00 PM	0.0001	0.0068	0.0137	0.0009	0.0007	0.0011	0.0005
09:00 PM - 10:00 PM	0.0001	0.0017	0.0168	0.0042	0.0041	0.0007	0.0002
10:00 PM - 11:00 PM	<0.0001	0.0004	0.0069	0.0014	0.0068	0.0004	0.0003
11:00 PM - 12:00 AM	<0.0001	0.0010	0.0088	0.0013	0.0099	0.0004	0.0006
12:00 AM - 01:00 AM	0.0001	0.0002	0.0059	0.0007	0.0023	0.0034	0.0067
01:00 AM - 02:00 AM	0.0018	0.0007	0.0059	0.0098	0.0016	0.0004	0.0047
02:00 AM - 03:00 AM	0.0043	0.0002	0.0105	0.0087	0.0004	0.0005	0.0031
03:00 AM - 04:00 AM	0.0034	0.0003	0.0167	0.0033	0.0196	0.0003	0.0004
04:00 AM - 05:00 AM	0.0242	0.0006	0.0159	0.0201	0.0253	0.0021	0.0004
05:00 AM - 06:00 AM	0.0028	0.0015	0.0245	0.0034	0.0331	0.0018	0.0027
06:00 AM - 07:00 AM	0.0087	0.0108	0.0039	0.0015	0.0024	0.0016	0.0011
07:00 AM - 08:00 AM	0.0015	0.0229	0.0015	0.0009	0.0024	0.0040	0.0010
08:00 AM - 09:00 AM	0.0015	0.0203	0.0010	0.0077	0.0016	0.0009	0.0005
09:00 AM - 10:00 AM	0.0006	0.0125	0.0019	0.0015	0.0014	0.0007	0.0007
10:00 AM - 11:00 AM	0.0002	0.0090	0.0016	0.0007	0.0011	0.0005	0.0035
Average	0.0024	0.0053	0.0106	0.0032	0.0051	0.0013	0.0014
1hr - Maximum	0.0242	0.0229	0.0415	0.0201	0.0331	0.0040	0.0067
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101644

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139705-1

Page 1 of 1

Sample Description Air Quality
Location ชุมชนห้วยเหียน (A6) (GPS 47P 0723088, 1444745)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101644-36 Sep 27, 2024	24101644-37 Sep 28, 2024	24101644-38 Sep 29, 2024	24101644-39 Sep 30, 2024	24101644-40 Oct 01, 2024	24101644-41 Oct 02, 2024	24101644-42 Oct 03, 2024
Time							
10:00 AM - 11:00 AM	0.0019	0.0009	0.0004	0.0001	0.0007	0.0006	0.0021
11:00 AM - 12:00 PM	0.0019	0.0008	0.0004	0.0027	0.0007	0.0005	0.0012
12:00 PM - 01:00 PM	0.0021	0.0016	0.0003	0.0012	0.0007	0.0005	0.0023
01:00 PM - 02:00 PM	0.0012	0.0016	0.0008	0.0013	0.0007	0.0004	0.0017
02:00 PM - 03:00 PM	0.0023	0.0013	0.0055	0.0038	0.0009	0.0005	0.0012
03:00 PM - 04:00 PM	0.0017	0.0012	0.0008	0.0040	0.0008	0.0005	0.0016
04:00 PM - 05:00 PM	0.0012	0.0016	0.0003	0.0024	0.0009	0.0005	0.0018
05:00 PM - 06:00 PM	0.0016	0.0008	0.0008	0.0016	0.0012	0.0006	0.0018
06:00 PM - 07:00 PM	0.0018	0.0007	0.0011	0.0018	0.0001	0.0006	0.0017
07:00 PM - 08:00 PM	0.0018	0.0006	0.0004	0.0016	0.0007	0.0015	0.0016
08:00 PM - 09:00 PM	0.0017	0.0011	0.0007	0.0012	0.0001	0.0074	0.0018
09:00 PM - 10:00 PM	0.0016	0.0015	0.0008	0.0014	0.0004	0.0011	0.0015
10:00 PM - 11:00 PM	0.0018	0.0012	0.0011	0.0012	0.0002	0.0017	0.0016
11:00 PM - 12:00 AM	0.0015	0.0010	0.0044	0.0011	0.0003	0.0022	0.0015
12:00 AM - 01:00 AM	0.0016	0.0002	0.0004	0.0010	0.0002	0.0024	0.0017
01:00 AM - 02:00 AM	0.0015	0.0001	0.0007	0.0008	0.0005	0.0069	0.0017
02:00 AM - 03:00 AM	0.0017	0.0003	0.0005	0.0008	0.0005	0.0012	0.0020
03:00 AM - 04:00 AM	0.0017	0.0002	0.0005	0.0008	0.0006	0.0014	0.0025
04:00 AM - 05:00 AM	0.0020	0.0001	0.0003	0.0006	0.0006	0.0012	0.0032
05:00 AM - 06:00 AM	0.0025	0.0001	0.0001	0.0007	0.0004	0.0013	0.0023
06:00 AM - 07:00 AM	0.0032	0.0003	<0.0001	0.0006	0.0005	0.0010	0.0008
07:00 AM - 08:00 AM	0.0023	0.0002	0.0001	0.0007	0.0004	0.0012	0.0009
08:00 AM - 09:00 AM	0.0008	0.0002	0.0001	0.0011	0.0005	0.0013	0.0009
09:00 AM - 10:00 AM	0.0009	0.0003	0.0001	0.0010	0.0005	0.0012	0.0008
Average	0.0018	0.0007	0.0009	0.0014	0.0005	0.0016	0.0017
1hr - Maximum	0.0032	0.0016	0.0055	0.0040	0.0012	0.0074	0.0032
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101644

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139707-1

Page 1 of 1

Sample Description Air Quality
Location บ้านนาบอน (A7) (GPS 47P 0727425, 1448026)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101644-43 Sep 27, 2024	24101644-44 Sep 28, 2024	24101644-45 Sep 29, 2024	24101644-46 Sep 30, 2024	24101644-47 Oct 01, 2024	24101644-48 Oct 02, 2024	24101644-49 Oct 03, 2024
Time							
11:00 AM - 12:00 PM	0.0054	0.0019	0.0045	0.0087	0.0040	0.0036	0.0036
12:00 PM - 01:00 PM	0.0103	0.0013	0.0063	0.0110	0.0051	0.0029	0.0024
01:00 PM - 02:00 PM	0.0012	0.0013	0.0077	0.0060	0.0054	0.0022	0.0018
02:00 PM - 03:00 PM	0.0024	0.0017	0.0052	0.0030	0.0043	0.0041	0.0017
03:00 PM - 04:00 PM	0.0030	0.0024	0.0036	0.0032	0.0048	0.0021	0.0026
04:00 PM - 05:00 PM	0.0036	0.0030	0.0032	0.0107	0.0053	0.0019	0.0027
05:00 PM - 06:00 PM	0.0036	0.0033	0.0037	0.0073	0.0054	0.0020	0.0025
06:00 PM - 07:00 PM	0.0045	0.0035	0.0065	0.0057	0.0042	0.0043	0.0037
07:00 PM - 08:00 PM	0.0074	0.0067	0.0099	0.0050	0.0037	0.0063	0.0036
08:00 PM - 09:00 PM	0.0135	0.0108	0.0073	0.0046	0.0043	0.0094	0.0063
09:00 PM - 10:00 PM	0.0084	0.0060	0.0050	0.0040	0.0043	0.0100	0.0094
10:00 PM - 11:00 PM	0.0050	0.0058	0.0039	0.0035	0.0026	0.0046	0.0039
11:00 PM - 12:00 AM	0.0038	0.0054	0.0040	0.0035	0.0025	0.0039	0.0026
12:00 AM - 01:00 AM	0.0043	0.0040	0.0044	0.0033	0.0027	0.0032	0.0044
01:00 AM - 02:00 AM	0.0039	0.0039	0.0020	0.0032	0.0040	0.0031	0.0062
02:00 AM - 03:00 AM	0.0035	0.0030	0.0016	0.0030	0.0034	0.0050	0.0055
03:00 AM - 04:00 AM	0.0045	0.0029	0.0022	0.0031	0.0040	0.0053	0.0040
04:00 AM - 05:00 AM	0.0033	0.0021	0.0024	0.0038	0.0039	0.0054	0.0035
05:00 AM - 06:00 AM	0.0023	0.0015	0.0022	0.0030	0.0035	0.0056	0.0040
06:00 AM - 07:00 AM	0.0026	0.0015	0.0024	0.0026	0.0049	0.0055	0.0045
07:00 AM - 08:00 AM	0.0031	0.0013	0.0034	0.0037	0.0039	0.0070	0.0050
08:00 AM - 09:00 AM	0.0041	0.0020	0.0048	0.0050	0.0073	0.0081	0.0061
09:00 AM - 10:00 AM	0.0046	0.0024	0.0049	0.0048	0.0057	0.0038	0.0036
10:00 AM - 11:00 AM	0.0016	0.0051	0.0081	0.0064	0.0037	0.0034	0.0019
Average	0.0046	0.0034	0.0046	0.0049	0.0043	0.0047	0.0040
1hr - Maximum	0.0135	0.0108	0.0099	0.0110	0.0073	0.0100	0.0094
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101648

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3099055-1

Page 1 of 1

Sample Description Air Quality
Location ร่มรั้วโครงการด้านทิศตะวันออก (A1) (GPS 47P 0726247, 1447576)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101648-1 Sep 27, 2024	24101648-2 Sep 28, 2024	24101648-3 Sep 29, 2024	24101648-4 Sep 30, 2024	24101648-5 Oct 01, 2024	24101648-6 Oct 02, 2024	24101648-7 Oct 03, 2024
Time							
11:00 AM - 12:00 PM	0.0031	0.0031	0.0030	0.0046	0.0034	0.0035	0.0034
12:00 PM - 01:00 PM	0.0026	0.0033	0.0036	0.0045	0.0033	0.0034	0.0035
01:00 PM - 02:00 PM	0.0029	0.0037	0.0033	0.0044	0.0032	0.0034	0.0031
02:00 PM - 03:00 PM	0.0031	0.0039	0.0033	0.0039	0.0033	0.0035	0.0034
03:00 PM - 04:00 PM	0.0036	0.0044	0.0031	0.0036	0.0032	0.0034	0.0036
04:00 PM - 05:00 PM	0.0042	0.0044	0.0029	0.0034	0.0033	0.0035	0.0039
05:00 PM - 06:00 PM	0.0043	0.0037	0.0028	0.0029	0.0033	0.0038	0.0042
06:00 PM - 07:00 PM	0.0041	0.0032	0.0027	0.0028	0.0033	0.0039	0.0033
07:00 PM - 08:00 PM	0.0035	0.0032	0.0027	0.0029	0.0033	0.0042	0.0033
08:00 PM - 09:00 PM	0.0030	0.0030	0.0029	0.0030	0.0033	0.0028	0.0031
09:00 PM - 10:00 PM	0.0029	0.0029	0.0029	0.0030	0.0033	0.0035	0.0029
10:00 PM - 11:00 PM	0.0028	0.0028	0.0029	0.0031	0.0034	0.0036	0.0028
11:00 PM - 12:00 AM	0.0026	0.0027	0.0030	0.0030	0.0037	0.0035	0.0027
12:00 AM - 01:00 AM	0.0026	0.0026	0.0030	0.0030	0.0041	0.0036	0.0041
01:00 AM - 02:00 AM	0.0026	0.0027	0.0031	0.0030	0.0040	0.0035	0.0035
02:00 AM - 03:00 AM	0.0024	0.0026	0.0030	0.0030	0.0044	0.0035	0.0030
03:00 AM - 04:00 AM	0.0027	0.0027	0.0032	0.0031	0.0044	0.0035	0.0029
04:00 AM - 05:00 AM	0.0027	0.0027	0.0032	0.0034	0.0028	0.0034	0.0028
05:00 AM - 06:00 AM	0.0027	0.0026	0.0035	0.0036	0.0034	0.0034	0.0031
06:00 AM - 07:00 AM	0.0027	0.0026	0.0037	0.0039	0.0033	0.0035	0.0031
07:00 AM - 08:00 AM	0.0028	0.0027	0.0040	0.0042	0.0034	0.0034	0.0029
08:00 AM - 09:00 AM	0.0027	0.0026	0.0041	0.0047	0.0035	0.0034	0.0029
09:00 AM - 10:00 AM	0.0028	0.0027	0.0043	0.0027	0.0035	0.0037	0.0032
10:00 AM - 11:00 AM	0.0029	0.0027	0.0046	0.0033	0.0034	0.0035	0.0032
Average	0.0030	0.0031	0.0033	0.0035	0.0035	0.0035	0.0032
1hr - Maximum	0.0043	0.0044	0.0046	0.0047	0.0044	0.0042	0.0042
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101648

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139713-1

Page 1 of 1

Sample Description Air Quality
Location บริเวณสถานีไฟฟ้าออม (A2) (GPS 47P 0726077, 1447565)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101648-8 Sep 27, 2024	24101648-9 Sep 28, 2024	24101648-10 Sep 29, 2024	24101648-11 Sep 30, 2024	24101648-12 Oct 01, 2024	24101648-13 Oct 02, 2024	24101648-14 Oct 03, 2024
Time							
10:00 AM - 11:00 AM	0.0036	0.0036	0.0038	0.0038	0.0032	0.0032	0.0034
11:00 AM - 12:00 PM	0.0032	0.0036	0.0037	0.0036	0.0028	0.0028	0.0031
12:00 PM - 01:00 PM	0.0021	0.0034	0.0038	0.0028	0.0025	0.0026	0.0023
01:00 PM - 02:00 PM	0.0035	0.0030	0.0036	0.0024	0.0024	0.0022	0.0020
02:00 PM - 03:00 PM	0.0029	0.0025	0.0031	0.0023	0.0022	0.0025	0.0020
03:00 PM - 04:00 PM	0.0020	0.0025	0.0029	0.0021	0.0019	0.0023	0.0021
04:00 PM - 05:00 PM	0.0041	0.0024	0.0024	0.0025	0.0020	0.0023	0.0042
05:00 PM - 06:00 PM	0.0042	0.0019	0.0023	0.0062	0.0019	0.0025	0.0040
06:00 PM - 07:00 PM	0.0022	0.0021	0.0021	0.0060	0.0016	0.0021	0.0020
07:00 PM - 08:00 PM	0.0021	0.0023	0.0017	0.0026	0.0016	0.0019	0.0016
08:00 PM - 09:00 PM	0.0020	0.0024	0.0020	0.0018	0.0017	0.0017	0.0013
09:00 PM - 10:00 PM	0.0023	0.0026	0.0023	0.0021	0.0019	0.0021	0.0015
10:00 PM - 11:00 PM	0.0027	0.0028	0.0028	0.0025	0.0024	0.0025	0.0020
11:00 PM - 12:00 AM	0.0029	0.0034	0.0032	0.0029	0.0029	0.0031	0.0022
12:00 AM - 01:00 AM	0.0032	0.0034	0.0036	0.0033	0.0032	0.0033	0.0025
01:00 AM - 02:00 AM	0.0033	0.0038	0.0038	0.0037	0.0033	0.0034	0.0029
02:00 AM - 03:00 AM	0.0034	0.0039	0.0039	0.0038	0.0035	0.0032	0.0031
03:00 AM - 04:00 AM	0.0035	0.0040	0.0039	0.0039	0.0035	0.0035	0.0036
04:00 AM - 05:00 AM	0.0034	0.0040	0.0038	0.0038	0.0033	0.0033	0.0038
05:00 AM - 06:00 AM	0.0034	0.0039	0.0037	0.0037	0.0033	0.0034	0.0039
06:00 AM - 07:00 AM	0.0034	0.0039	0.0037	0.0037	0.0034	0.0033	0.0037
07:00 AM - 08:00 AM	0.0034	0.0038	0.0042	0.0036	0.0033	0.0034	0.0035
08:00 AM - 09:00 AM	0.0035	0.0038	0.0038	0.0035	0.0032	0.0034	0.0032
09:00 AM - 10:00 AM	0.0035	0.0037	0.0038	0.0032	0.0032	0.0033	0.0031
Average	0.0031	0.0032	0.0032	0.0033	0.0027	0.0028	0.0028
1hr - Maximum	0.0042	0.0040	0.0042	0.0062	0.0035	0.0035	0.0042
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

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Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101648

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139714-1

Page 1 of 1

Sample Description Air Quality
Location วัดห้วยบวชนาราม (A3) (GPS 47P 0727879, 1451130)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

Time	24101648-15 Sep 27, 2024	24101648-16 Sep 28, 2024	24101648-17 Sep 29, 2024	24101648-18 Sep 30, 2024	24101648-19 Oct 01, 2024	24101648-20 Oct 02, 2024	24101648-21 Oct 03, 2024
12:00 PM - 01:00 PM	0.0003	0.0005	0.0004	0.0004	0.0005	0.0004	0.0005
01:00 PM - 02:00 PM	0.0004	0.0006	0.0004	0.0003	0.0004	0.0004	0.0004
02:00 PM - 03:00 PM	0.0004	0.0006	0.0004	0.0003	0.0004	0.0004	0.0004
03:00 PM - 04:00 PM	0.0004	0.0005	0.0004	0.0003	0.0004	0.0004	0.0004
04:00 PM - 05:00 PM	0.0009	0.0004	0.0004	0.0003	0.0004	0.0005	0.0005
05:00 PM - 06:00 PM	0.0009	0.0005	0.0004	0.0003	0.0004	0.0003	0.0004
06:00 PM - 07:00 PM	0.0009	0.0006	0.0004	0.0003	0.0003	0.0002	0.0004
07:00 PM - 08:00 PM	0.0009	0.0005	0.0004	0.0004	0.0003	0.0002	0.0004
08:00 PM - 09:00 PM	0.0008	0.0005	0.0004	0.0003	0.0004	0.0003	0.0003
09:00 PM - 10:00 PM	0.0007	0.0005	0.0003	0.0003	0.0004	0.0003	0.0004
10:00 PM - 11:00 PM	0.0007	0.0004	0.0004	0.0004	0.0003	0.0003	0.0004
11:00 PM - 12:00 AM	0.0007	0.0005	0.0003	0.0004	0.0003	0.0004	0.0004
12:00 AM - 01:00 AM	0.0007	0.0005	0.0003	0.0004	0.0003	0.0004	0.0004
01:00 AM - 02:00 AM	0.0007	0.0005	0.0003	0.0004	0.0003	0.0004	0.0004
02:00 AM - 03:00 AM	0.0006	0.0006	0.0003	0.0004	0.0004	0.0003	0.0004
03:00 AM - 04:00 AM	0.0006	0.0005	0.0003	0.0004	0.0004	0.0003	0.0004
04:00 AM - 05:00 AM	0.0007	0.0004	0.0003	0.0004	0.0003	0.0004	0.0003
05:00 AM - 06:00 AM	0.0006	0.0005	0.0004	0.0004	0.0003	0.0003	0.0005
06:00 AM - 07:00 AM	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004
07:00 AM - 08:00 AM	0.0006	0.0005	0.0004	0.0004	0.0003	0.0004	0.0004
08:00 AM - 09:00 AM	0.0006	0.0005	0.0004	0.0003	0.0003	0.0004	0.0004
09:00 AM - 10:00 AM	0.0005	0.0004	0.0003	0.0004	0.0003	0.0004	0.0004
10:00 AM - 11:00 AM	0.0005	0.0004	0.0003	0.0004	0.0004	0.0003	0.0004
11:00 AM - 12:00 PM	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	0.0005
Average	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004
1hr - Maximum	0.0009	0.0006	0.0004	0.0004	0.0005	0.0005	0.0005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101648

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139719-1

Page 1 of 1

Sample Description Air Quality
Location วัดบ่อวิน (A4) (GPS 47P 0723647, 1444280)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

Time	24101648-22 Sep 27, 2024	24101648-23 Sep 28, 2024	24101648-24 Sep 29, 2024	24101648-25 Sep 30, 2024	24101648-26 Oct 01, 2024	24101648-27 Oct 02, 2024	24101648-28 Oct 03, 2024
10:00 AM - 11:00 AM	0.0037	0.0045	0.0040	0.0042	0.0044	0.0045	0.0041
11:00 AM - 12:00 PM	0.0033	0.0048	0.0042	0.0041	0.0045	0.0048	0.0043
12:00 PM - 01:00 PM	0.0041	0.0044	0.0039	0.0043	0.0046	0.0049	0.0049
01:00 PM - 02:00 PM	0.0041	0.0041	0.0042	0.0045	0.0047	0.0049	0.0047
02:00 PM - 03:00 PM	0.0040	0.0041	0.0043	0.0042	0.0047	0.0049	0.0048
03:00 PM - 04:00 PM	0.0038	0.0041	0.0042	0.0041	0.0045	0.0049	0.0049
04:00 PM - 05:00 PM	0.0014	0.0040	0.0042	0.0043	0.0042	0.0052	0.0048
05:00 PM - 06:00 PM	0.0043	0.0040	0.0042	0.0043	0.0045	0.0044	0.0053
06:00 PM - 07:00 PM	0.0041	0.0040	0.0040	0.0041	0.0045	0.0039	0.0055
07:00 PM - 08:00 PM	0.0041	0.0037	0.0040	0.0041	0.0045	0.0037	0.0048
08:00 PM - 09:00 PM	0.0042	0.0038	0.0042	0.0039	0.0041	0.0038	0.0042
09:00 PM - 10:00 PM	0.0040	0.0039	0.0041	0.0042	0.0040	0.0035	0.0045
10:00 PM - 11:00 PM	0.0041	0.0039	0.0038	0.0041	0.0039	0.0037	0.0051
11:00 PM - 12:00 AM	0.0039	0.0040	0.0038	0.0042	0.0039	0.0041	0.0052
12:00 AM - 01:00 AM	0.0039	0.0041	0.0039	0.0043	0.0040	0.0040	0.0051
01:00 AM - 02:00 AM	0.0043	0.0040	0.0040	0.0044	0.0041	0.0041	0.0050
02:00 AM - 03:00 AM	0.0041	0.0039	0.0040	0.0043	0.0041	0.0038	0.0053
03:00 AM - 04:00 AM	0.0042	0.0039	0.0039	0.0044	0.0041	0.0034	0.0052
04:00 AM - 05:00 AM	0.0042	0.0040	0.0040	0.0041	0.0037	0.0035	0.0048
05:00 AM - 06:00 AM	0.0038	0.0039	0.0041	0.0040	0.0041	0.0033	0.0046
06:00 AM - 07:00 AM	0.0039	0.0039	0.0041	0.0043	0.0040	0.0033	0.0042
07:00 AM - 08:00 AM	0.0041	0.0041	0.0041	0.0043	0.0040	0.0034	0.0042
08:00 AM - 09:00 AM	0.0041	0.0041	0.0041	0.0043	0.0041	0.0035	0.0041
09:00 AM - 10:00 AM	0.0041	0.0040	0.0041	0.0044	0.0041	0.0036	0.0042
Average	0.0039	0.0040	0.0041	0.0042	0.0042	0.0040	0.0047
1hr - Maximum	0.0043	0.0048	0.0043	0.0045	0.0047	0.0052	0.0055
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101648

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139720-1

Page 1 of 1

Sample Description Air Quality
Location วัดพันเสด็จนอก (A5) (GPS 47P 0729688, 1447669)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

Time	24101648-29 Sep 27, 2024	24101648-30 Sep 28, 2024	24101648-31 Sep 29, 2024	24101648-32 Sep 30, 2024	24101648-33 Oct 01, 2024	24101648-34 Oct 02, 2024	24101648-35 Oct 03, 2024
11:00 AM - 12:00 PM	0.0011	0.0012	0.0019	0.0013	0.0014	0.0014	0.0014
12:00 PM - 01:00 PM	0.0011	0.0011	0.0017	0.0013	0.0013	0.0014	0.0014
01:00 PM - 02:00 PM	0.0011	0.0012	0.0015	0.0013	0.0013	0.0013	0.0014
02:00 PM - 03:00 PM	0.0011	0.0012	0.0014	0.0013	0.0013	0.0013	0.0014
03:00 PM - 04:00 PM	0.0011	0.0012	0.0014	0.0013	0.0013	0.0013	0.0014
04:00 PM - 05:00 PM	0.0011	0.0013	0.0014	0.0013	0.0013	0.0014	0.0014
05:00 PM - 06:00 PM	0.0011	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014
06:00 PM - 07:00 PM	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014
07:00 PM - 08:00 PM	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014
08:00 PM - 09:00 PM	0.0012	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014
09:00 PM - 10:00 PM	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0015
10:00 PM - 11:00 PM	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0015
11:00 PM - 12:00 AM	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014
12:00 AM - 01:00 AM	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0015
01:00 AM - 02:00 AM	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014
02:00 AM - 03:00 AM	0.0011	0.0016	0.0013	0.0013	0.0013	0.0014	0.0015
03:00 AM - 04:00 AM	0.0011	0.0017	0.0013	0.0013	0.0014	0.0014	0.0014
04:00 AM - 05:00 AM	0.0011	0.0015	0.0013	0.0013	0.0014	0.0014	0.0014
05:00 AM - 06:00 AM	0.0012	0.0014	0.0013	0.0013	0.0013	0.0014	0.0015
06:00 AM - 07:00 AM	0.0012	0.0019	0.0013	0.0013	0.0013	0.0015	0.0015
07:00 AM - 08:00 AM	0.0012	0.0036	0.0013	0.0014	0.0014	0.0014	0.0014
08:00 AM - 09:00 AM	0.0012	0.0022	0.0013	0.0013	0.0014	0.0014	0.0014
09:00 AM - 10:00 AM	0.0012	0.0019	0.0013	0.0014	0.0014	0.0014	0.0014
10:00 AM - 11:00 AM	0.0012	0.0020	0.0012	0.0014	0.0014	0.0014	0.0014
Average	0.0011	0.0015	0.0014	0.0013	0.0013	0.0014	0.0014
1hr - Maximum	0.0012	0.0036	0.0019	0.0014	0.0014	0.0015	0.0015
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101648

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139721-1

Page 1 of 1

Sample Description Air Quality
Location ชุมชนห้วยเหียน (A6) (GPS 47P 0723088, 1444745)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101648-36 Sep 27, 2024	24101648-37 Sep 28, 2024	24101648-38 Sep 29, 2024	24101648-39 Sep 30, 2024	24101648-40 Oct 01, 2024	24101648-41 Oct 02, 2024	24101648-42 Oct 03, 2024
Time							
10:00 AM - 11:00 AM	0.0022	0.0030	0.0031	0.0037	0.0036	0.0031	0.0028
11:00 AM - 12:00 PM	0.0023	0.0031	0.0032	0.0037	0.0039	0.0033	0.0026
12:00 PM - 01:00 PM	0.0027	0.0032	0.0031	0.0037	0.0038	0.0029	0.0027
01:00 PM - 02:00 PM	0.0026	0.0031	0.0032	0.0037	0.0037	0.0032	0.0025
02:00 PM - 03:00 PM	0.0026	0.0032	0.0032	0.0036	0.0035	0.0029	0.0021
03:00 PM - 04:00 PM	0.0026	0.0031	0.0031	0.0036	0.0035	0.0031	0.0020
04:00 PM - 05:00 PM	0.0026	0.0031	0.0031	0.0036	0.0036	0.0027	0.0020
05:00 PM - 06:00 PM	0.0026	0.0032	0.0030	0.0035	0.0035	0.0032	0.0022
06:00 PM - 07:00 PM	0.0026	0.0032	0.0032	0.0036	0.0035	0.0032	0.0023
07:00 PM - 08:00 PM	0.0030	0.0032	0.0030	0.0037	0.0035	0.0032	0.0026
08:00 PM - 09:00 PM	0.0030	0.0033	0.0032	0.0035	0.0036	0.0031	0.0029
09:00 PM - 10:00 PM	0.0030	0.0032	0.0032	0.0036	0.0036	0.0032	0.0029
10:00 PM - 11:00 PM	0.0029	0.0032	0.0032	0.0038	0.0035	0.0031	0.0031
11:00 PM - 12:00 AM	0.0030	0.0033	0.0032	0.0038	0.0036	0.0029	0.0032
12:00 AM - 01:00 AM	0.0032	0.0033	0.0035	0.0037	0.0035	0.0030	0.0034
01:00 AM - 02:00 AM	0.0030	0.0032	0.0036	0.0037	0.0034	0.0030	0.0035
02:00 AM - 03:00 AM	0.0030	0.0032	0.0038	0.0037	0.0033	0.0030	0.0035
03:00 AM - 04:00 AM	0.0031	0.0033	0.0037	0.0036	0.0033	0.0028	0.0035
04:00 AM - 05:00 AM	0.0029	0.0032	0.0034	0.0036	0.0034	0.0029	0.0033
05:00 AM - 06:00 AM	0.0030	0.0032	0.0036	0.0035	0.0034	0.0030	0.0031
06:00 AM - 07:00 AM	0.0029	0.0032	0.0037	0.0035	0.0033	0.0030	0.0033
07:00 AM - 08:00 AM	0.0032	0.0033	0.0038	0.0034	0.0032	0.0029	0.0036
08:00 AM - 09:00 AM	0.0030	0.0032	0.0039	0.0036	0.0031	0.0028	0.0035
09:00 AM - 10:00 AM	0.0030	0.0032	0.0038	0.0036	0.0032	0.0029	0.0034
Average	0.0028	0.0032	0.0034	0.0036	0.0035	0.0030	0.0029
1hr - Maximum	0.0032	0.0033	0.0039	0.0038	0.0039	0.0033	0.0036
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101648

Date Received : Oct 10, 2024
Date Reported : Oct 17, 2024
Report Number: 3139722-1

Page 1 of 1

Sample Description Air Quality
Location บ้านนาบอน (A7) (GPS 47P 0727425, 1448026)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 27, 2024 - Oct 04, 2024
Measurement by Anurak Tongkhajonsakda

	24101648-43 Sep 27, 2024	24101648-44 Sep 28, 2024	24101648-45 Sep 29, 2024	24101648-46 Sep 30, 2024	24101648-47 Oct 01, 2024	24101648-48 Oct 02, 2024	24101648-49 Oct 03, 2024
Time							
11:00 AM - 12:00 PM	0.0019	0.0020	0.0019	0.0020	0.0032	0.0030	0.0040
12:00 PM - 01:00 PM	0.0019	0.0020	0.0020	0.0020	0.0036	0.0033	0.0029
01:00 PM - 02:00 PM	0.0019	0.0020	0.0020	0.0020	0.0037	0.0030	0.0028
02:00 PM - 03:00 PM	0.0019	0.0020	0.0021	0.0021	0.0032	0.0025	0.0028
03:00 PM - 04:00 PM	0.0019	0.0021	0.0020	0.0021	0.0024	0.0025	0.0026
04:00 PM - 05:00 PM	0.0019	0.0020	0.0021	0.0022	0.0024	0.0023	0.0025
05:00 PM - 06:00 PM	0.0019	0.0020	0.0021	0.0024	0.0024	0.0024	0.0026
06:00 PM - 07:00 PM	0.0019	0.0019	0.0020	0.0024	0.0024	0.0026	0.0025
07:00 PM - 08:00 PM	0.0019	0.0020	0.0020	0.0023	0.0025	0.0029	0.0025
08:00 PM - 09:00 PM	0.0020	0.0019	0.0021	0.0024	0.0025	0.0025	0.0025
09:00 PM - 10:00 PM	0.0019	0.0019	0.0021	0.0023	0.0024	0.0025	0.0026
10:00 PM - 11:00 PM	0.0019	0.0020	0.0021	0.0025	0.0024	0.0025	0.0025
11:00 PM - 12:00 AM	0.0019	0.0020	0.0021	0.0035	0.0024	0.0025	0.0025
12:00 AM - 01:00 AM	0.0019	0.0020	0.0020	0.0031	0.0024	0.0025	0.0026
01:00 AM - 02:00 AM	0.0019	0.0019	0.0020	0.0028	0.0024	0.0025	0.0025
02:00 AM - 03:00 AM	0.0020	0.0019	0.0020	0.0027	0.0024	0.0025	0.0026
03:00 AM - 04:00 AM	0.0020	0.0019	0.0020	0.0028	0.0024	0.0024	0.0028
04:00 AM - 05:00 AM	0.0019	0.0019	0.0020	0.0028	0.0024	0.0025	0.0026
05:00 AM - 06:00 AM	0.0020	0.0019	0.0019	0.0025	0.0024	0.0026	0.0025
06:00 AM - 07:00 AM	0.0019	0.0020	0.0020	0.0025	0.0024	0.0026	0.0026
07:00 AM - 08:00 AM	0.0018	0.0019	0.0021	0.0024	0.0024	0.0025	0.0026
08:00 AM - 09:00 AM	0.0020	0.0019	0.0020	0.0024	0.0025	0.0025	0.0025
09:00 AM - 10:00 AM	0.0020	0.0020	0.0020	0.0025	0.0026	0.0027	0.0026
10:00 AM - 11:00 AM	0.0019	0.0020	0.0020	0.0032	0.0030	0.0040	0.0028
Average	0.0019	0.0020	0.0020	0.0025	0.0026	0.0027	0.0027
1hr - Maximum	0.0020	0.0021	0.0021	0.0035	0.0037	0.0040	0.0040
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101670
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number: 3099081-1

Page 1 of 1

Sample Description Air Quality
Location ริมรั้วโครงการด้านทิศตะวันออก (A1) (GPS 47P 0726247, 1447576)
Date Analysis Commenced Oct 10, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
24101670-1	Sep 27 - Sep 28, 2024	0.054	0.029	757	29
24101670-2	Sep 28 - Sep 29, 2024	0.055	0.026	757	29
24101670-3	Sep 29 - Sep 30, 2024	0.054	0.026	757	29
24101670-4	Sep 30 - Oct 01, 2024	0.042	0.019	757	29
24101670-5	Oct 01 - Oct 02, 2024	0.068	0.044	757	29
24101670-6	Oct 02 - Oct 03, 2024	0.102	0.037	757	29
24101670-7	Oct 03 - Oct 04, 2024	0.060	0.020	757	29
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Anurak Tongkhajonsakda

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101670
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number: 3099081-2

Page 1 of 1

Sample Description	Air Quality				
Location	บริเวณสถานีไฟฟ้าอ้อย (A2) (GPS 47P 0726077, 1447565)				
Date Analysis Commenced	Oct 10, 2024				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
24101670-8	Sep 27 - Sep 28, 2024	0.033	0.028	757	29
24101670-9	Sep 28 - Sep 29, 2024	0.032	0.025	757	29
24101670-10	Sep 29 - Sep 30, 2024	0.034	0.026	757	29
24101670-11	Sep 30 - Oct 01, 2024	0.032	0.021	757	29
24101670-12	Oct 01 - Oct 02, 2024	0.043	0.027	757	29
24101670-13	Oct 02 - Oct 03, 2024	0.058	0.038	757	29
24101670-14	Oct 03 - Oct 04, 2024	0.034	0.019	757	29
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Anurak Tongkhajonsakda

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101670
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number: 3099081-3

Page 1 of 1

Sample Description Air Quality
Location วัดหนองนาราม (A3) (GPS 47P 0727879, 1451130)
Date Analysis Commenced Oct 10, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
24101670-15	Sep 27 - Sep 28, 2024	0.030	0.010	757	29
24101670-16	Sep 28 - Sep 29, 2024	0.029	0.013	757	29
24101670-17	Sep 29 - Sep 30, 2024	0.023	0.008	757	29
24101670-18	Sep 30 - Oct 01, 2024	0.020	0.011	757	29
24101670-19	Oct 01 - Oct 02, 2024	0.034	0.029	757	29
24101670-20	Oct 02 - Oct 03, 2024	0.039	0.018	757	29
24101670-21	Oct 03 - Oct 04, 2024	0.043	0.035	757	29
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Anurak Tongkhajonsakda

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

TESTING
No.0042
Lot ID: 24101670
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number: 3099081-4

Page 1 of 1

Sample Description	Air Quality				
Location	วัดบวร (A4) (GPS 47P 0723647, 1444280)				
Date Analysis Commenced	Oct 10, 2024				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
24101670-22	Sep 27 - Sep 28, 2024	0.042	0.028	757	29
24101670-23	Sep 28 - Sep 29, 2024	0.029	0.013	757	29
24101670-24	Sep 29 - Sep 30, 2024	0.015	0.011	757	29
24101670-25	Sep 30 - Oct 01, 2024	0.033	0.016	757	29
24101670-26	Oct 01 - Oct 02, 2024	0.032	0.022	757	29
24101670-27	Oct 02 - Oct 03, 2024	0.029	0.015	757	29
24101670-28	Oct 03 - Oct 04, 2024	0.019	0.017	757	29
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Anurak Tongkhajonsakda

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101670
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number: 3099081-5

Page 1 of 1

Sample Description	Air Quality
Location	วัดพันเสด็จนอก (A5) (GPS 47P 0729688, 1447669)
Date Analysis Commenced	Oct 10, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
24101670-29	Sep 27 - Sep 28, 2024	0.056	0.033	757	29
24101670-30	Sep 28 - Sep 29, 2024	0.047	0.026	757	29
24101670-31	Sep 29 - Sep 30, 2024	0.039	0.021	757	29
24101670-32	Sep 30 - Oct 01, 2024	0.038	0.020	757	29
24101670-33	Oct 01 - Oct 02, 2024	0.040	0.017	757	29
24101670-34	Oct 02 - Oct 03, 2024	0.046	0.021	757	29
24101670-35	Oct 03 - Oct 04, 2024	0.047	0.020	757	29
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Anurak Tongkhajonsakda

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101670
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number: 3099081-6

Page 1 of 1

Sample Description Air Quality
Location ชุมชนห้วยเหี้ยม (A6) (GPS 47P 0723088, 1444745)
Date Analysis Commenced Oct 10, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
24101670-36	Sep 27 - Sep 28, 2024	0.042	0.019	757	29
24101670-37	Sep 28 - Sep 29, 2024	0.027	0.019	757	29
24101670-38	Sep 29 - Sep 30, 2024	0.022	0.017	757	29
24101670-39	Sep 30 - Oct 01, 2024	0.038	0.020	757	29
24101670-40	Oct 01 - Oct 02, 2024	0.036	0.017	757	29
24101670-41	Oct 02 - Oct 03, 2024	0.028	0.015	757	29
24101670-42	Oct 03 - Oct 04, 2024	0.030	0.016	757	29
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Anurak Tongkhajonsakda

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101670

Date Received : Oct 09, 2024

Date Reported : Oct 15, 2024

Report Number: 3099081-7

Page 1 of 1

Sample Description Air Quality
Location กรุงเทพมหานคร (A7) (GPS 47P 0727425, 1448026)
Date Analysis Commenced Oct 10, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
24101670-43	Sep 27 - Sep 28, 2024	0.027	0.016	757	29
24101670-44	Sep 28 - Sep 29, 2024	0.024	0.019	757	29
24101670-45	Sep 29 - Sep 30, 2024	0.027	0.020	757	29
24101670-46	Sep 30 - Oct 01, 2024	0.041	0.024	757	29
24101670-47	Oct 01 - Oct 02, 2024	0.024	0.014	757	29
24101670-48	Oct 02 - Oct 03, 2024	0.032	0.029	757	29
24101670-49	Oct 03 - Oct 04, 2024	0.024	0.012	757	29
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Anurak Tongkhajonsakda

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

Lot ID: 24101655
Date Received :Oct 09, 2024
Date Reported :Oct 16, 2024
Report Number :3134164-1

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Page 1 of 2

Sample Number 24101655-1 to 7
Parameter Wind Speed / Wind Direction
Location ร่มรั้วโครงการด้านทิศตะวันออก (A1) (GPS 47P 0726247, 1447576)
Sampling Date Sep 27 - Oct 04, 2024
Sampling by Anurak Tongkhajonsakda

Time	Sep 27 - Sep 28, 2024			Sep 28 - Sep 29, 2024			Sep 29 - Sep 30, 2024			Sep 30 - Oct 01, 2024			Oct 01 - Oct 02, 2024			Oct 02 - Oct 03, 2024			Oct 03 - Oct 04, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
09:00 AM - 10:00 AM	0.9	194.0	SSW	1.5	288.0	WNW	3.2	264.0	W	4.4	260.0	W	2.4	197.0	SSW	3.6	185.0	S	1.9	198.0	SSW
10:00 AM - 11:00 AM	0.7	160.0	SSE	1.4	312.0	NW	1.0	248.0	WSW	3.4	273.0	W	2.8	214.0	SW	3.9	174.0	S	0.9	168.0	SSE
11:00 AM - 12:00 PM	3.9	285.0	WNW	1.3	281.0	W	3.4	246.0	WSW	2.9	351.0	N	1.0	151.0	SSE	0.6	204.0	SSW	1.5	189.0	S
12:00 PM - 01:00 PM	0.5	339.0	NNW	1.0	359.0	N	0.6	248.0	WSW	0.5	330.0	NNW	2.7	209.0	SSW	1.4	271.0	W	2.3	177.0	S
01:00 PM - 02:00 PM	1.0	322.0	NW	1.3	350.0	N	1.9	296.0	WNW	2.1	279.0	W	2.3	118.0	ESE	1.0	264.0	W	2.9	159.0	SSE
02:00 PM - 03:00 PM	0.7	112.0	ESE	0.5	323.0	NW	0.8	266.0	W	1.1	276.0	W	2.9	176.0	S	1.6	240.0	WSW	3.0	202.0	SSW
03:00 PM - 04:00 PM	1.6	123.0	ESE	0.6	253.0	WSW	1.3	288.0	WNW	2.4	221.0	SW	1.3	184.0	S	1.4	201.0	SSW	1.2	213.0	SSW
04:00 PM - 05:00 PM	0.6	119.0	ESE	0.7	214.0	SW	2.4	225.0	SW	1.5	225.0	SW	1.4	224.0	SW	0.8	198.0	SSW	0.9	217.0	SW
05:00 PM - 06:00 PM	0.0	-	-	1.4	210.0	SSW	1.1	214.0	SW	1.2	228.0	SW	2.5	213.0	SSW	1.6	153.0	SSE	1.9	161.0	SSE
06:00 PM - 07:00 PM	0.5	262.0	W	1.1	226.0	SW	0.7	241.0	WSW	0.2	-	-	0.4	221.0	SW	0.9	171.0	S	0.6	187.0	S
07:00 PM - 08:00 PM	0.1	-	-	0.6	215.0	SW	0.4	253.0	WSW	0.3	165.0	SSE	0.4	213.0	SSW	0.9	137.0	SE	0.4	145.0	SE
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	2.5	271.0	W	1.0	136.0	SE	0.6	160.0	SSE	0.2	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.2	-	-	0.6	254.0	WSW	0.1	-	-	0.8	204.0	SSW	0.0	-	-	0.5	145.0	SE
10:00 PM - 11:00 PM	0.0	-	-	0.3	214.0	SW	0.0	-	-	0.0	-	-	0.7	212.0	SSW	0.3	159.0	SSE	0.5	152.0	SSE
11:00 PM - 12:00 AM	0.3	33.0	NNE	0.1	-	-	0.0	-	-	0.8	199.0	SSW	0.6	233.0	SW	0.3	159.0	SSE	0.6	153.0	SSE
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	0.8	128.0	SE	0.3	198.0	SSW	0.2	-	-	0.5	151.0	SSE
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.3	252.0	WSW	0.8	137.0	SE	0.3	197.0	SSW	0.0	-	-	0.3	155.0	SSE
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.4	252.0	WSW	0.2	-	-	0.0	-	-	0.0	-	-	0.2	-	-
03:00 AM - 04:00 AM	0.2	-	-	0.0	-	-	0.2	-	-	1.1	144.0	SE	0.6	197.0	SSW	0.2	-	-	0.2	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.1	-	-	0.9	169.0	S	0.6	157.0	SSE	0.2	-	-	0.6	12.0	NNE
05:00 AM - 06:00 AM	0.0	-	-	1.8	178.0	S	0.2	-	-	2.4	127.0	SE	0.1	-	-	0.7	157.0	SSE	0.9	20.0	NNE
06:00 AM - 07:00 AM	0.6	301.0	WNW	1.5	269.0	W	1.8	278.0	W	1.9	111.0	ESE	1.4	256.0	WSW	1.2	135.0	SE	2.1	115.0	ESE
07:00 AM - 08:00 AM	1.0	358.0	N	0.8	321.0	NW	1.8	273.0	W	1.4	201.0	SSW	2.3	128.0	SE	1.4	188.0	S	0.3	120.0	ESE
08:00 AM - 09:00 AM	0.6	293.0	WNW	1.4	349.0	N	1.1	14.0	NNE	1.6	139.0	SE	2.4	195.0	SSW	2.0	245.0	WSW	0.7	121.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Lot ID: 24101655

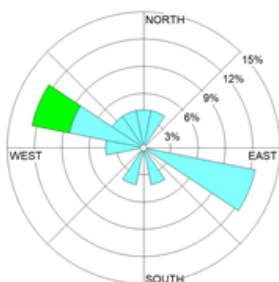
Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

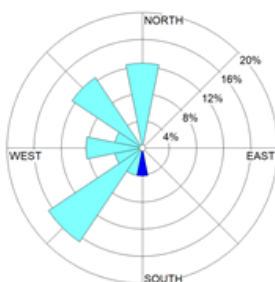
Report Number :3134164-1

Page 2 of 2

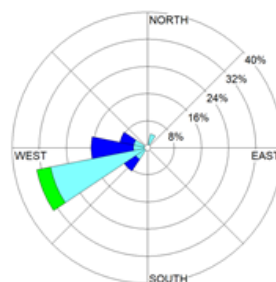
Wind Rose



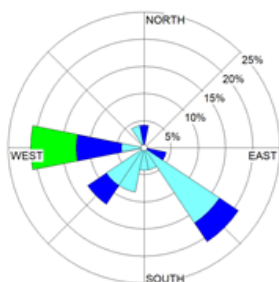
Date : Sep 27-28, 2024



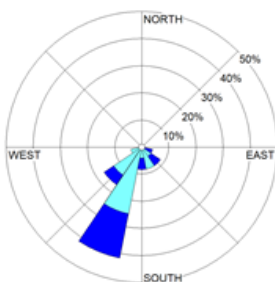
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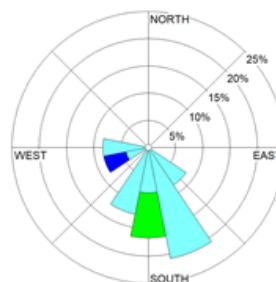
Date : Sep 29-30, 2024



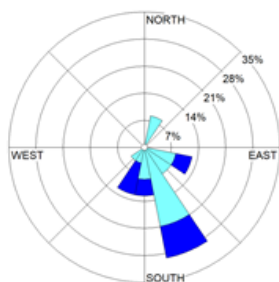
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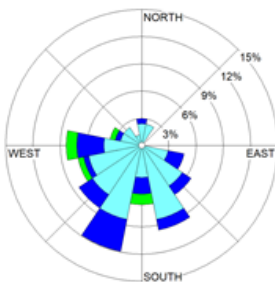
Date : Oct 01-02, 2024



Date : Oct 02-03, 2024



Date : Oct 03-04, 2024



Date : Sep 27-Oct 04, 2024

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	3.57
	1.7-3.3	16.07
	0.3-1.7	55.95
	Calms	24.40

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

Lot ID: 24101655
Date Received :Oct 09, 2024
Date Reported :Oct 16, 2024
Report Number :3134164-1

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Page 1 of 2

Sample Number 24101655-8 to 14
Parameter Wind Speed / Wind Direction
Location บริเวณสถานีไฟฟ้าย่อย (A2) (GPS 47P 0726077, 1447565)
Sampling Date Sep 27 - Oct 04, 2024
Sampling by Anurak Tongkhajonsakda

Time	Sep 27 - Sep 28, 2024			Sep 28 - Sep 29, 2024			Sep 29 - Sep 30, 2024			Sep 30 - Oct 01, 2024			Oct 01 - Oct 02, 2024			Oct 02 - Oct 03, 2024			Oct 03 - Oct 04, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	2.7	223.0	SW	0.0	-	-	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	2.4	0.0	N
11:00 AM - 12:00 PM	3.4	82.0	E	0.0	-	-	0.6	137.0	SE	0.5	86.0	E	0.2	-	-	0.3	120.0	ESE	1.4	0.0	N
12:00 PM - 01:00 PM	1.8	107.0	ESE	0.0	-	-	0.6	145.0	SE	0.0	-	-	0.4	141.0	SE	0.1	-	-	3.9	135.0	SE
01:00 PM - 02:00 PM	1.7	118.0	ESE	0.0	-	-	0.1	-	-	0.4	135.0	SE	0.6	141.0	SE	0.0	-	-	0.7	134.0	SE
02:00 PM - 03:00 PM	2.1	115.0	ESE	0.0	-	-	1.0	112.0	ESE	0.7	134.0	SE	0.2	-	-	1.0	128.0	SE	0.2	-	-
03:00 PM - 04:00 PM	0.9	186.0	S	0.0	-	-	0.6	97.0	E	1.1	147.0	SSE	0.6	140.0	SE	1.3	140.0	SE	0.5	95.0	E
04:00 PM - 05:00 PM	0.4	189.0	S	0.0	-	-	0.0	-	-	0.4	143.0	SE	0.5	137.0	SE	0.9	140.0	SE	0.0	-	-
05:00 PM - 06:00 PM	1.0	132.0	SE	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	1.4	141.0	SE	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.2	-	-	1.1	227.0	SW	0.1	-	-	0.0	-	-	1.1	94.0	E	0.2	-	-
07:00 PM - 08:00 PM	0.2	-	-	0.4	186.0	S	0.7	0.0	N	0.2	-	-	0.8	219.0	SW	0.6	0.0	N	0.3	118.0	ESE
08:00 PM - 09:00 PM	1.1	223.0	SW	1.4	0.0	N	0.0	-	-	1.1	0.0	N	2.7	0.0	N	0.0	-	-	0.2	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.9	0.0	N	2.2	0.0	N	3.9	230.0	SW	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.7	227.0	SW	0.7	0.0	N	2.0	0.0	N	1.8	0.0	N	1.7	0.0	N	2.2	0.0	N	0.0	-	-
11:00 PM - 12:00 AM	1.4	73.0	ENE	2.9	225.0	SW	0.7	0.0	N	0.0	-	-	2.3	0.0	N	0.0	-	-	0.5	225.0	SW
12:00 AM - 01:00 AM	0.7	0.0	N	0.0	-	-	0.9	232.0	SW	0.0	-	-	1.9	0.0	N	0.2	-	-	1.0	158.0	SSE
01:00 AM - 02:00 AM	1.1	0.0	N	0.2	-	-	1.7	0.0	N	0.0	-	-	0.4	0.0	N	0.1	-	-	0.8	112.0	ESE
02:00 AM - 03:00 AM	0.5	213.0	SSW	0.8	83.0	E	0.4	211.0	SSW	0.0	-	-	0.0	-	-	0.0	-	-	2.0	140.0	SE
03:00 AM - 04:00 AM	0.7	0.0	N	1.2	107.0	ESE	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.9	224.0	SW
04:00 AM - 05:00 AM	0.0	-	-	0.1	-	-	0.6	145.0	SE	0.4	227.0	SW	0.0	-	-	0.7	128.0	SE	0.7	139.0	SE
05:00 AM - 06:00 AM	0.0	-	-	0.9	106.0	ESE	1.2	87.0	E	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.1	-	-	1.1	136.0	SE	0.1	-	-	0.0	-	-	1.1	127.0	SE	0.0	-	-
07:00 AM - 08:00 AM	0.3	130.0	SE	0.9	137.0	SE	1.6	111.0	ESE	0.0	-	-	0.0	-	-	0.2	-	-	0.3	137.0	SE
08:00 AM - 09:00 AM	0.0	-	-	0.0	-	-	2.7	113.0	ESE	0.3	156.0	SSE	0.0	-	-	0.5	137.0	SE	0.0	-	-
09:00 AM - 10:00 AM	0.1	-	-	0.6	123.0	ESE	0.4	91.0	E	0.0	-	-	0.3	129.0	SE	1.6	119.0	ESE	0.3	141.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Lot ID: 24101655

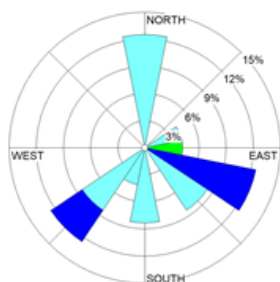
Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

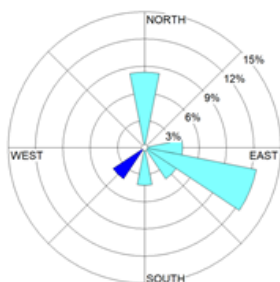
Report Number :3134164-1

Page 2 of 2

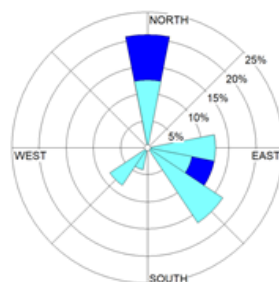
Wind Rose



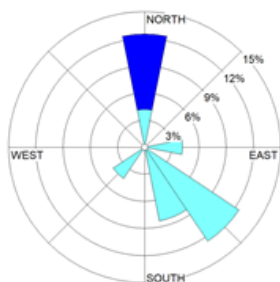
Date : Sep 27-28, 2024



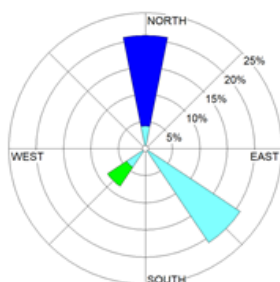
Date : Sep 28-29, 2024



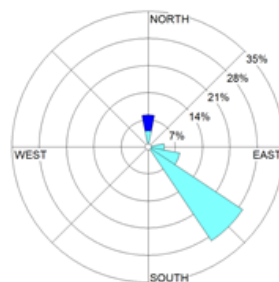
Date : Sep 29-30, 2024



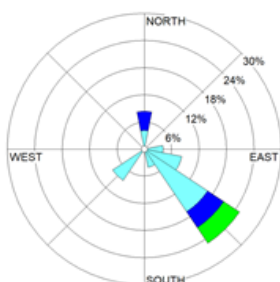
Date : Sep 30-Oct 01, 2024



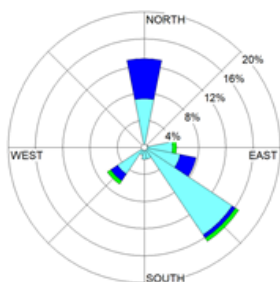
Date : Oct 01-02, 2024



Date : Oct 02-03, 2024



Date : Oct 03-04, 2024



Date : Sep 27-Oct 04, 2024

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	1.79
1.7-3.3	10.12
0.3-1.7	42.26
Calms	45.83

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

Lot ID: 24101655
Date Received :Oct 09, 2024
Date Reported :Oct 16, 2024
Report Number :3134164-1

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Page 1 of 2

Sample Number 24101655-15 to 21
Parameter Wind Speed / Wind Direction
Location วัดหีบหมากวนาราม (A3) (GPS 47P 0727879, 1451130)
Sampling Date Sep 27 - Oct 04, 2024
Sampling by Anurak Tongkhajonsakda

Time	Sep 27 - Sep 28, 2024			Sep 28 - Sep 29, 2024			Sep 29 - Sep 30, 2024			Sep 30 - Oct 01, 2024			Oct 01 - Oct 02, 2024			Oct 02 - Oct 03, 2024			Oct 03 - Oct 04, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
12:00 PM - 01:00 PM	0.1	-	-	1.5	155.0	SSE	2.4	111.0	ESE	1.3	159.0	SSE	1.1	132.0	SE	0.7	128.0	SE	0.4	112.0	ESE
01:00 PM - 02:00 PM	1.5	316.0	NW	1.2	317.0	NW	2.1	125.0	SE	2.3	159.0	SSE	0.9	129.0	SE	3.2	129.0	SE	0.3	128.0	SE
02:00 PM - 03:00 PM	3.1	319.0	NW	6.7	328.0	NNW	2.7	119.0	ESE	0.8	159.0	SSE	1.2	131.0	SE	2.0	125.0	SE	0.5	120.0	ESE
03:00 PM - 04:00 PM	3.7	324.0	NW	1.1	331.0	NNW	2.5	123.0	ESE	2.2	50.0	NE	0.9	132.0	SE	0.3	125.0	SE	1.7	116.0	ESE
04:00 PM - 05:00 PM	2.1	328.0	NNW	0.0	-	-	1.3	121.0	ESE	3.9	13.0	NNE	0.6	132.0	SE	1.8	129.0	SE	0.4	116.0	ESE
05:00 PM - 06:00 PM	0.3	261.0	W	0.6	317.0	NW	0.9	114.0	ESE	0.8	13.0	NNE	0.6	131.0	SE	1.4	128.0	SE	0.0	-	-
06:00 PM - 07:00 PM	0.4	271.0	W	0.8	316.0	NW	0.0	-	-	1.5	146.0	SE	0.4	131.0	SE	0.5	130.0	SE	0.0	-	-
07:00 PM - 08:00 PM	1.0	342.0	NNW	0.5	341.0	NNW	1.4	181.0	S	1.6	191.0	S	0.9	203.0	SSW	2.8	135.0	SE	0.0	-	-
08:00 PM - 09:00 PM	1.0	286.0	WNW	1.1	215.0	SW	1.2	137.0	SE	1.3	292.0	WNW	1.1	244.0	WSW	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	1.5	281.0	W	0.7	281.0	W	0.7	335.0	NNW	2.0	264.0	W	1.2	323.0	NW	1.0	264.0	W	1.3	10.0	N
10:00 PM - 11:00 PM	0.0	-	-	2.1	354.0	N	1.8	274.0	W	1.0	227.0	SW	0.6	292.0	WNW	0.5	247.0	WSW	0.2	-	-
11:00 PM - 12:00 AM	0.0	-	-	2.9	338.0	NNW	2.0	198.0	SSW	0.6	174.0	S	1.4	223.0	SW	0.4	266.0	W	1.2	277.0	W
12:00 AM - 01:00 AM	0.7	229.0	SW	0.4	172.0	S	1.0	188.0	S	0.8	170.0	S	1.4	279.0	W	0.6	313.0	NW	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.9	163.0	SSE	2.1	149.0	SSE	1.4	151.0	SSE	0.0	-	-	0.5	339.0	NNW
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.8	144.0	SE	1.6	169.0	S	1.4	270.0	W	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	1.6	161.0	SSE	1.0	127.0	SE	1.4	179.0	S	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.7	174.0	S	3.6	152.0	SSE	1.4	165.0	SSE	0.0	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.3	219.0	SW	0.0	-	-	1.1	169.0	S	1.6	146.0	SE	1.4	159.0	SSE	0.0	-	-	1.2	307.0	NW
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.9	172.0	S	0.0	-	-	1.4	154.0	SSE	2.0	115.0	ESE	0.1	-	-
07:00 AM - 08:00 AM	0.4	159.0	SSE	3.7	116.0	ESE	2.8	124.0	SE	0.6	181.0	S	1.4	129.0	SE	2.3	111.0	ESE	0.0	-	-
08:00 AM - 09:00 AM	2.0	154.0	SSE	2.1	86.0	E	1.1	116.0	ESE	1.3	181.0	S	1.4	128.0	SE	1.9	113.0	ESE	0.0	-	-
09:00 AM - 10:00 AM	1.2	153.0	SSE	1.4	123.0	ESE	2.4	118.0	ESE	0.0	-	-	1.4	126.0	SE	1.0	311.0	NW	0.0	-	-
10:00 AM - 11:00 AM	1.4	153.0	SSE	2.0	169.0	S	1.9	163.0	SSE	1.2	147.0	SSE	0.0	-	-	1.5	263.0	W	0.1	-	-
11:00 AM - 12:00 PM	0.6	158.0	SSE	0.7	172.0	S	1.7	163.0	SSE	1.5	134.0	SE	0.0	-	-	2.7	160.0	SSE	1.2	114.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Lot ID: 24101655

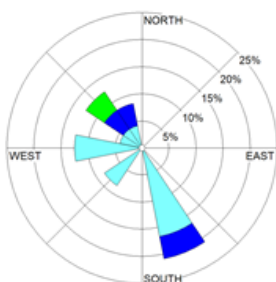
Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

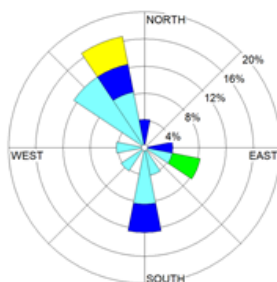
Report Number :3134164-1

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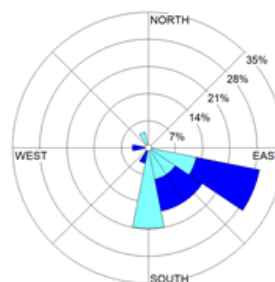
Wind Rose



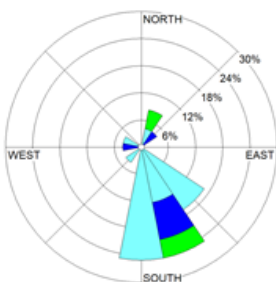
Date : Sep 27-28, 2024



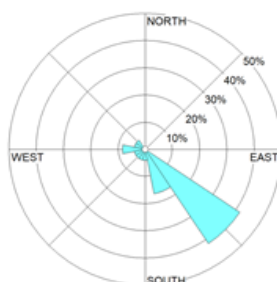
Date : Sep 28-29, 2024



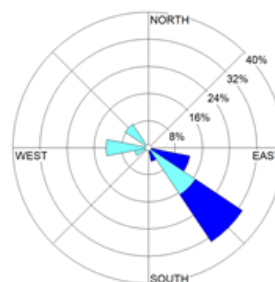
Date : Sep 29-30, 2024



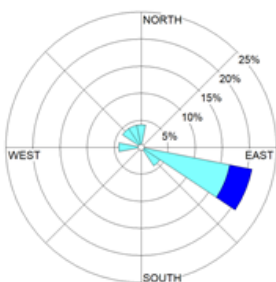
Date : Sep 30-Oct 01, 2024



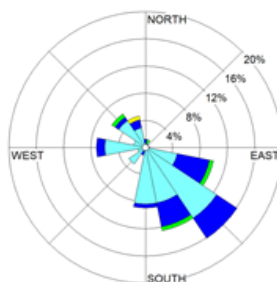
Date : Oct 01-02, 2024



Date : Oct 02-03, 2024



Date : Oct 03-04, 2024



Date : Sep 27-Oct 04, 2024

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	2.38
1.7-3.3	17.86
0.3-1.7	55.36
Calms	23.81

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

Lot ID: 24101655

Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

Report Number :3134164-1

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Page 1 of 2

Sample Number 24101655-22 to 28
Parameter Wind Speed / Wind Direction
Location วัดปลวหิน (A4) (GPS 47P 0723647, 1444280)
Sampling Date Sep 27 - Oct 04, 2024
Sampling by Anurak Tongkhajonsakda

Time	Sep 27 - Sep 28, 2024			Sep 28 - Sep 29, 2024			Sep 29 - Sep 30, 2024			Sep 30 - Oct 01, 2024			Oct 01 - Oct 02, 2024			Oct 02 - Oct 03, 2024			Oct 03 - Oct 04, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	0.3	159.0	SSE	1.1	116.0	ESE	0.7	188.0	S	2.0	233.0	SW	1.8	124.0	SE	0.0	-	-	0.3	165.0	SSE
11:00 AM - 12:00 PM	1.5	41.0	NE	0.0	-	-	0.9	9.0	N	0.7	170.0	S	0.5	34.0	NE	3.3	115.0	ESE	0.8	146.0	SE
12:00 PM - 01:00 PM	2.6	59.0	ENE	0.4	315.0	NW	2.0	102.0	ESE	0.2	-	-	0.3	185.0	S	1.5	131.0	SE	2.1	139.0	SE
01:00 PM - 02:00 PM	1.4	5.0	N	0.0	-	-	1.2	54.0	NE	1.4	71.0	ENE	0.5	64.0	ENE	1.7	236.0	SW	0.9	110.0	ESE
02:00 PM - 03:00 PM	0.0	-	-	0.0	-	-	1.7	132.0	SE	1.1	81.0	E	0.0	-	-	1.7	122.0	ESE	0.9	264.0	W
03:00 PM - 04:00 PM	0.0	-	-	0.0	-	-	1.3	129.0	SE	2.3	112.0	ESE	1.7	126.0	SE	1.3	82.0	E	0.7	30.0	NNE
04:00 PM - 05:00 PM	0.3	0.0	N	0.0	-	-	0.9	121.0	ESE	0.0	-	-	0.0	-	-	1.3	107.0	ESE	2.9	127.0	SE
05:00 PM - 06:00 PM	0.0	-	-	0.2	-	-	0.5	158.0	SSE	0.0	-	-	0.0	-	-	0.0	-	-	0.4	19.0	NNE
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.6	193.0	SSW	0.0	-	-	0.5	147.0	SSE	0.9	176.0	S
07:00 PM - 08:00 PM	0.1	-	-	1.0	106.0	ESE	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.4	2.0	N	0.0	-	-	0.2	-	-	0.4	132.0	SE	0.0	-	-	0.6	145.0	SE	0.1	-	-
09:00 PM - 10:00 PM	0.3	2.0	N	0.0	-	-	0.0	-	-	0.5	60.0	ENE	0.5	156.0	SSE	0.1	-	-	0.1	-	-
10:00 PM - 11:00 PM	1.0	2.0	N	0.0	-	-	0.0	-	-	1.0	355.0	N	0.0	-	-	0.0	-	-	0.1	-	-
11:00 PM - 12:00 AM	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-
12:00 AM - 01:00 AM	0.3	32.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.0	138.0	SE
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.0	22.0	NNE
05:00 AM - 06:00 AM	0.0	-	-	0.9	121.0	ESE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.7	27.0	NNE
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.0	329.0	NNW
07:00 AM - 08:00 AM	0.0	-	-	0.4	56.0	NE	0.7	245.0	WSW	1.8	158.0	SSE	1.5	136.0	SE	1.2	150.0	SSE	1.0	326.0	NW
08:00 AM - 09:00 AM	1.8	144.0	SE	0.9	92.0	E	1.2	89.0	E	1.6	202.0	SSW	0.0	-	-	0.0	-	-	0.3	328.0	NNW
09:00 AM - 10:00 AM	0.0	-	-	0.5	346.0	NNW	0.7	247.0	WSW	0.3	274.0	W	2.2	113.0	ESE	1.5	167.0	SSE	0.4	320.0	NW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Lot ID: 24101655

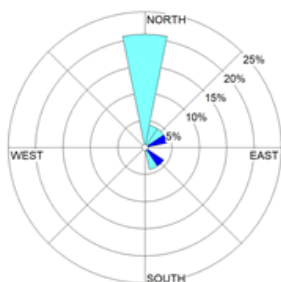
Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

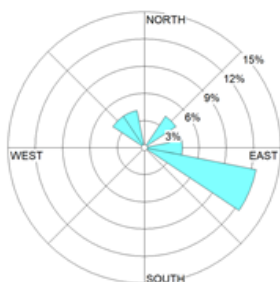
Report Number :3134164-1

Page 2 of 2

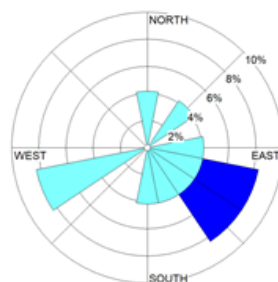
Wind Rose



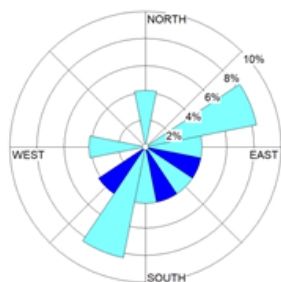
Date : Sep 27-28, 2024



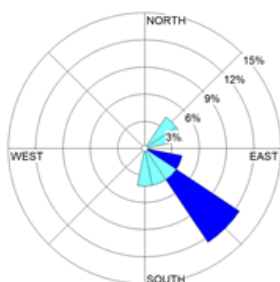
Date : Sep 28-29, 2024



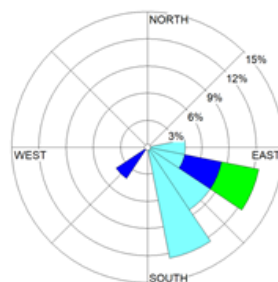
Date : Sep 29-30, 2024



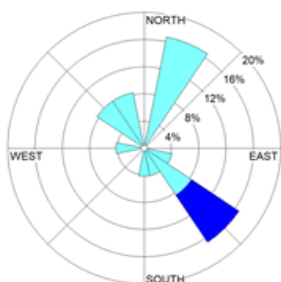
Date : Sep 30-Oct 01, 2024



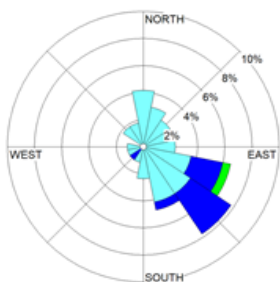
Date : Oct 01-02, 2024



Date : Oct 02-03, 2024



Date : Oct 03-04, 2024



Date : Sep 27-Oct 04, 2024

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	0.60
	1.7-3.3	8.33
	0.3-1.7	35.12
	Calms	55.95

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

Lot ID: 24101655

Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

Report Number :3134164-1

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Page 1 of 2

Sample Number 24101655-29 to 35
Parameter Wind Speed / Wind Direction
Location วัดพันเสด็จนอก (A5) (GPS 47P 0729688, 1447669)
Sampling Date Sep 27 - Oct 04, 2024
Sampling by Anurak Tongkhajonsakda

Time	Sep 27 - Sep 28, 2024			Sep 28 - Sep 29, 2024			Sep 29 - Sep 30, 2024			Sep 30 - Oct 01, 2024			Oct 01 - Oct 02, 2024			Oct 02 - Oct 03, 2024			Oct 03 - Oct 04, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	1.0	201.0	SSW	2.0	191.0	S	2.0	284.0	WNW	2.0	234.0	SW	2.1	212.0	SSW	1.8	290.0	WNW	1.8	252.0	WSW
12:00 PM - 01:00 PM	0.8	197.0	SSW	1.2	273.0	W	1.4	238.0	WSW	2.1	221.0	SW	2.0	313.0	NW	2.0	273.0	W	1.0	233.0	SW
01:00 PM - 02:00 PM	0.6	155.0	SSE	1.0	283.0	WNW	0.8	232.0	SW	2.0	207.0	SSW	1.2	341.0	NNW	1.3	325.0	NW	0.8	277.0	W
02:00 PM - 03:00 PM	0.6	337.0	NNW	1.3	101.0	E	1.1	286.0	WNW	1.0	216.0	SW	1.3	247.0	WSW	0.3	262.0	W	1.5	356.0	N
03:00 PM - 04:00 PM	1.0	242.0	WSW	0.5	241.0	WSW	1.2	335.0	NNW	1.6	229.0	SW	1.0	323.0	NW	0.6	201.0	SSW	2.0	245.0	WSW
04:00 PM - 05:00 PM	1.2	236.0	SW	0.6	296.0	WNW	1.6	288.0	WNW	1.3	315.0	NW	1.0	246.0	WSW	0.2	-	-	0.4	259.0	W
05:00 PM - 06:00 PM	1.6	95.0	E	0.3	185.0	S	0.9	260.0	W	2.0	230.0	SW	0.6	216.0	SW	0.3	256.0	WSW	0.7	248.0	WSW
06:00 PM - 07:00 PM	0.6	219.0	SW	0.8	244.0	WSW	2.0	202.0	SSW	1.2	245.0	WSW	0.7	245.0	WSW	0.7	266.0	W	1.5	245.0	WSW
07:00 PM - 08:00 PM	0.1	-	-	0.6	228.0	SW	1.7	222.0	SW	1.0	250.0	WSW	0.5	275.0	W	0.8	247.0	WSW	0.4	237.0	WSW
08:00 PM - 09:00 PM	1.0	239.0	WSW	0.7	182.0	S	1.3	249.0	WSW	1.0	256.0	WSW	0.6	176.0	S	0.4	359.0	N	0.9	251.0	WSW
09:00 PM - 10:00 PM	0.6	171.0	S	1.0	253.0	WSW	1.0	171.0	S	0.3	249.0	WSW	0.3	189.0	S	0.5	131.0	SE	1.0	266.0	W
10:00 PM - 11:00 PM	0.8	146.0	SE	0.2	-	-	1.3	198.0	SSW	0.3	241.0	WSW	0.5	194.0	SSW	0.6	144.0	SE	1.2	251.0	WSW
11:00 PM - 12:00 AM	0.2	-	-	0.9	154.0	SSE	0.3	246.0	WSW	0.8	242.0	WSW	0.4	182.0	S	0.2	-	-	0.5	250.0	WSW
12:00 AM - 01:00 AM	0.3	199.0	SSW	0.7	234.0	SW	0.5	190.0	S	0.3	223.0	SW	1.0	193.0	SSW	0.4	150.0	SSE	0.0	-	-
01:00 AM - 02:00 AM	0.4	121.0	ESE	0.4	259.0	W	0.4	272.0	W	0.3	240.0	WSW	1.2	200.0	SSW	0.3	165.0	SSE	0.8	195.0	SSW
02:00 AM - 03:00 AM	1.0	90.0	E	0.6	222.0	SW	0.8	241.0	WSW	0.4	190.0	S	0.6	163.0	SSE	0.2	-	-	0.6	199.0	SSW
03:00 AM - 04:00 AM	1.5	133.0	SE	0.7	209.0	SSW	0.9	216.0	SW	0.5	183.0	S	0.7	182.0	S	0.7	181.0	S	0.2	-	-
04:00 AM - 05:00 AM	0.2	-	-	1.0	197.0	SSW	0.1	-	-	0.2	-	-	0.3	194.0	SSW	1.0	200.0	SSW	0.7	185.0	S
05:00 AM - 06:00 AM	0.6	133.0	SE	0.8	196.0	SSW	0.1	-	-	0.1	-	-	0.4	201.0	SSW	1.1	198.0	SSW	0.5	188.0	S
06:00 AM - 07:00 AM	0.7	170.0	S	0.3	200.0	SSW	1.3	219.0	SW	0.9	234.0	SW	0.5	221.0	SW	0.5	183.0	S	0.5	194.0	SSW
07:00 AM - 08:00 AM	0.2	-	-	1.0	127.0	SE	2.0	203.0	SSW	0.4	217.0	SW	1.0	234.0	SW	0.5	163.0	SSE	0.4	181.0	S
08:00 AM - 09:00 AM	0.5	188.0	S	1.2	187.0	S	1.2	244.0	WSW	0.3	331.0	NNW	1.2	194.0	SSW	0.1	-	-	0.6	199.0	SSW
09:00 AM - 10:00 AM	1.1	187.0	S	1.6	185.0	S	1.0	308.0	NW	0.2	-	-	1.5	232.0	SW	0.4	159.0	SSE	0.7	233.0	SW
10:00 AM - 11:00 AM	1.3	191.0	S	1.6	295.0	WNW	0.3	253.0	WSW	1.0	274.0	W	1.0	225.0	SW	0.7	217.0	SW	1.1	231.0	SW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Lot ID: 24101655

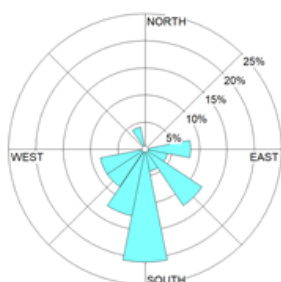
Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

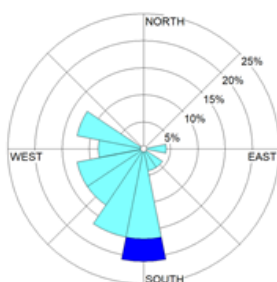
Report Number :3134164-1

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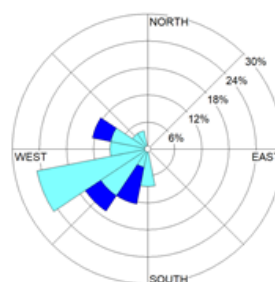
Wind Rose



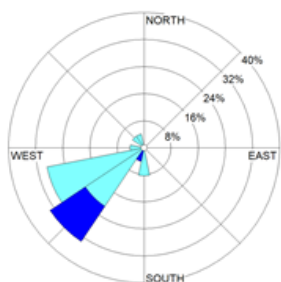
Date : Sep 27-28, 2024



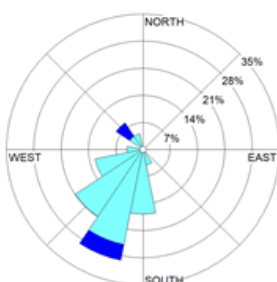
Date : Sep 28-29, 2024



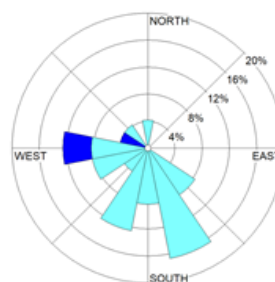
Date : Sep 29-30, 2024



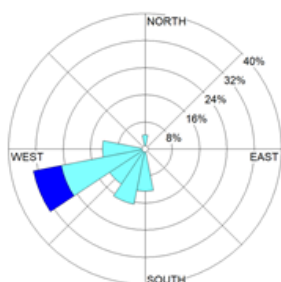
Date : Sep 30-Oct 01, 2024



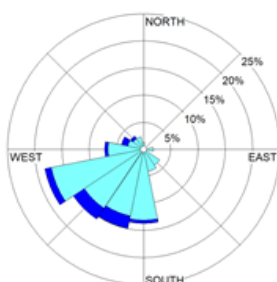
Date : Oct 01-02, 2024



Date : Oct 02-03, 2024



Date : Oct 03-04, 2024



Date : Sep 27-Oct 04, 2024

	WS (m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	0.00
	1.7-3.3	8.93
	0.3-1.7	81.55
	Calms	9.52

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

Lot ID: 24101655
Date Received :Oct 09, 2024
Date Reported :Oct 16, 2024
Report Number :3134164-1

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Page 1 of 2

Sample Number 24101655-36 to 42
Parameter Wind Speed / Wind Direction
Location ชุมชนห้วยเหียน (A6) (GPS 47P 0723088, 1444745)
Sampling Date Sep 27 - Oct 04, 2024
Sampling by Anurak Tongkhajonsakda

Time	Sep 27 - Sep 28, 2024			Sep 28 - Sep 29, 2024			Sep 29 - Sep 30, 2024			Sep 30 - Oct 01, 2024			Oct 01 - Oct 02, 2024			Oct 02 - Oct 03, 2024			Oct 03 - Oct 04, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	1.0	16.0	NNE	0.0	-	-	2.1	218.0	SW	2.1	301.0	WNW	2.5	256.0	WSW	2.0	137.0	SE	1.6	259.0	W
11:00 AM - 12:00 PM	0.9	18.0	NNE	2.1	280.0	W	2.3	336.0	NNW	1.6	303.0	WNW	1.2	210.0	SSW	1.6	235.0	SW	1.2	151.0	SSE
12:00 PM - 01:00 PM	0.6	264.0	W	2.1	238.0	WSW	2.7	303.0	WNW	0.8	308.0	NW	1.0	134.0	SE	1.0	316.0	NW	0.0	-	-
01:00 PM - 02:00 PM	1.9	286.0	WNW	0.0	-	-	1.4	147.0	SSE	1.1	284.0	WNW	2.5	198.0	SSW	0.8	290.0	WNW	1.2	201.0	SSW
02:00 PM - 03:00 PM	2.4	350.0	N	0.0	-	-	2.9	255.0	WSW	0.3	276.0	W	1.8	238.0	WSW	1.4	243.0	WSW	0.0	-	-
03:00 PM - 04:00 PM	0.1	-	-	0.0	-	-	2.3	204.0	SSW	2.1	298.0	WNW	2.3	135.0	SE	2.0	318.0	NW	0.0	-	-
04:00 PM - 05:00 PM	0.6	190.0	S	2.5	267.0	W	0.2	-	-	2.0	249.0	WSW	1.1	190.0	S	1.2	246.0	WSW	0.1	-	-
05:00 PM - 06:00 PM	0.2	-	-	2.2	238.0	WSW	1.0	220.0	SW	1.0	242.0	WSW	2.3	173.0	S	1.0	181.0	S	2.2	81.0	E
06:00 PM - 07:00 PM	0.1	-	-	2.8	215.0	SW	0.3	237.0	WSW	1.2	195.0	SSW	0.5	188.0	S	0.6	103.0	ESE	0.0	-	-
07:00 PM - 08:00 PM	0.3	32.0	NNE	0.6	215.0	SW	0.2	-	-	0.3	203.0	SSW	0.2	-	-	0.1	-	-	1.7	170.0	S
08:00 PM - 09:00 PM	0.3	241.0	WSW	0.4	225.0	SW	1.0	235.0	SW	0.5	193.0	SSW	0.3	184.0	S	0.6	147.0	SSE	0.0	-	-
09:00 PM - 10:00 PM	0.4	100.0	E	0.2	-	-	0.5	190.0	S	0.4	198.0	SSW	0.1	-	-	0.3	191.0	S	0.0	-	-
10:00 PM - 11:00 PM	0.1	-	-	1.9	225.0	SW	0.2	-	-	0.2	-	-	0.5	235.0	SW	0.7	231.0	SW	0.7	161.0	SSE
11:00 PM - 12:00 AM	0.1	-	-	1.5	229.0	SW	0.2	-	-	0.2	-	-	0.2	-	-	0.2	-	-	0.2	-	-
12:00 AM - 01:00 AM	0.2	-	-	1.4	203.0	SSW	0.5	201.0	SSW	0.1	-	-	0.6	194.0	SSW	0.6	185.0	S	0.1	-	-
01:00 AM - 02:00 AM	0.3	225.0	SW	1.7	189.0	S	0.1	-	-	0.2	-	-	0.4	184.0	S	0.1	-	-	0.2	-	-
02:00 AM - 03:00 AM	0.1	-	-	0.0	-	-	0.3	187.0	S	0.7	149.0	SSE	0.2	-	-	0.8	162.0	SSE	0.7	144.0	SE
03:00 AM - 04:00 AM	0.3	223.0	SW	0.6	209.0	SSW	0.2	-	-	1.0	141.0	SE	0.1	-	-	0.2	-	-	0.2	-	-
04:00 AM - 05:00 AM	0.4	233.0	SW	0.0	-	-	0.1	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.7	151.0	SSE
05:00 AM - 06:00 AM	0.6	236.0	SW	0.0	-	-	0.2	-	-	0.2	-	-	1.0	157.0	SSE	1.6	178.0	S	1.0	59.0	ENE
06:00 AM - 07:00 AM	0.8	181.0	S	0.0	-	-	1.1	183.0	S	1.6	144.0	SE	1.2	132.0	SE	1.7	174.0	S	1.3	37.0	NE
07:00 AM - 08:00 AM	0.8	273.0	W	1.6	211.0	SSW	1.0	291.0	WNW	1.6	159.0	SSE	1.2	238.0	WSW	2.4	129.0	SE	2.0	105.0	ESE
08:00 AM - 09:00 AM	1.9	142.0	SE	2.1	256.0	WSW	1.3	295.0	WNW	1.0	242.0	WSW	1.0	81.0	E	1.3	259.0	W	1.4	106.0	ESE
09:00 AM - 10:00 AM	1.5	317.0	NW	2.5	308.0	NW	2.0	331.0	NNW	2.0	154.0	SSE	1.3	258.0	WSW	1.8	171.0	S	1.0	105.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Lot ID: 24101655

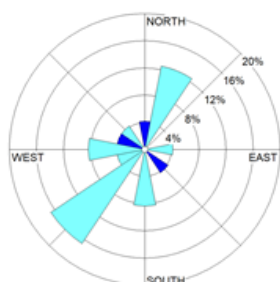
Date Received : Oct 09, 2024

Date Reported : Oct 16, 2024

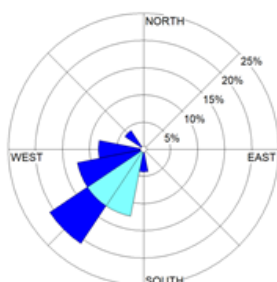
Report Number : 3134164-1

Page 2 of 2

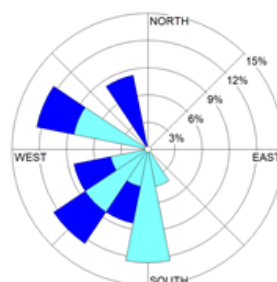
Wind Rose



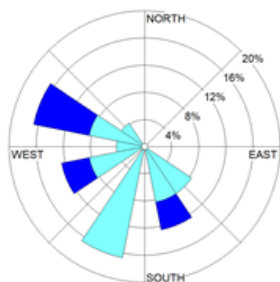
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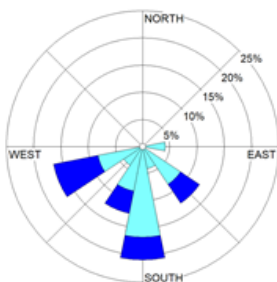
Date : Sep 28-29, 2024



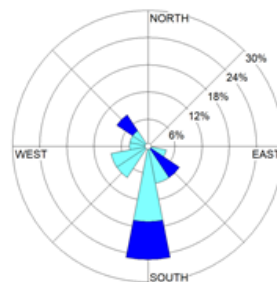
Date : Sep 29-30, 2024



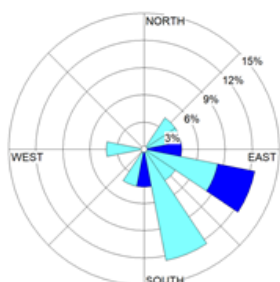
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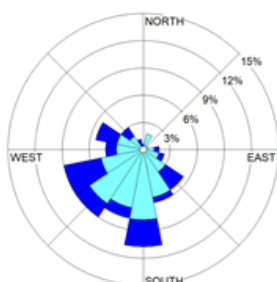
Date : Oct 01-02, 2024



Date : Oct 02-03, 2024



Date : Oct 03-04, 2024



Date : Sep 27-Oct 04, 2024

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	20.83
0.3-1.7	48.21
Calms	30.95

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

Lot ID: 24101655
Date Received :Oct 09, 2024
Date Reported :Oct 16, 2024
Report Number :3134164-1

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Page 1 of 2

Sample Number 24101655-43 to 49
Parameter Wind Speed / Wind Direction
Location บ้านนาหนอง (A7) (GPS 47P 0727425, 1448026)
Sampling Date Sep 27 - Oct 04, 2024
Sampling by Anurak Tongkhajonsakda

Time	Sep 27 - Sep 28, 2024			Sep 28 - Sep 29, 2024			Sep 29 - Sep 30, 2024			Sep 30 - Oct 01, 2024			Oct 01 - Oct 02, 2024			Oct 02 - Oct 03, 2024			Oct 03 - Oct 04, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	0.4	347.0	NNW	2.2	275.0	W	0.9	112.0	ESE	4.9	238.0	WSW	3.6	195.0	SSW	2.0	265.0	W	0.4	221.0	SW
12:00 PM - 01:00 PM	0.4	354.0	N	1.0	209.0	SSW	1.2	176.0	S	0.3	193.0	SSW	1.6	222.0	SW	1.6	122.0	ESE	0.3	203.0	SSW
01:00 PM - 02:00 PM	0.0	-	-	1.9	274.0	W	1.0	155.0	SSE	2.0	248.0	WSW	1.2	157.0	SSE	0.5	197.0	SSW	0.1	-	-
02:00 PM - 03:00 PM	0.8	281.0	W	0.6	290.0	WNW	0.8	127.0	SE	0.6	193.0	SSW	1.0	140.0	SE	0.9	239.0	WSW	1.2	223.0	SW
03:00 PM - 04:00 PM	1.6	297.0	WNW	2.1	233.0	SW	0.7	206.0	SSW	0.6	144.0	SE	0.5	157.0	SSE	0.7	330.0	NNW	0.7	251.0	WSW
04:00 PM - 05:00 PM	1.0	215.0	SW	0.3	246.0	WSW	0.3	181.0	S	0.4	139.0	SE	0.4	152.0	SSE	1.0	22.0	NNE	0.6	124.0	SE
05:00 PM - 06:00 PM	0.4	241.0	WSW	1.1	299.0	WNW	0.2	-	-	1.0	157.0	SSE	0.9	145.0	SE	0.6	89.0	E	0.2	-	-
06:00 PM - 07:00 PM	1.4	293.0	WNW	0.5	308.0	NW	0.6	153.0	SSE	0.2	-	-	0.2	-	-	0.8	87.0	E	0.4	117.0	ESE
07:00 PM - 08:00 PM	0.3	299.0	WNW	0.6	292.0	WNW	0.5	166.0	SSE	0.5	199.0	SSW	0.1	-	-	0.2	-	-	0.2	-	-
08:00 PM - 09:00 PM	0.3	56.0	NE	0.3	326.0	NW	0.2	-	-	0.2	-	-	0.5	116.0	ESE	0.5	87.0	E	0.2	-	-
09:00 PM - 10:00 PM	0.5	55.0	NE	1.7	294.0	WNW	0.8	183.0	S	0.9	137.0	SE	0.2	-	-	0.4	86.0	E	0.5	119.0	ESE
10:00 PM - 11:00 PM	0.4	72.0	ENE	0.2	-	-	0.4	169.0	S	0.1	-	-	0.6	107.0	ESE	0.2	-	-	0.1	-	-
11:00 PM - 12:00 AM	0.6	108.0	ESE	0.7	301.0	WNW	0.3	146.0	SE	1.0	159.0	SSE	0.7	129.0	SE	0.1	-	-	0.9	221.0	SW
12:00 AM - 01:00 AM	0.7	165.0	SSE	0.4	290.0	WNW	0.2	-	-	0.5	136.0	SE	0.2	-	-	0.1	-	-	0.1	-	-
01:00 AM - 02:00 AM	1.0	162.0	SSE	0.3	354.0	N	1.1	218.0	SW	0.3	136.0	SE	1.0	128.0	SE	0.3	151.0	SSE	0.2	-	-
02:00 AM - 03:00 AM	0.2	-	-	0.5	359.0	N	0.9	143.0	SE	0.4	137.0	SE	0.1	-	-	0.5	105.0	ESE	0.5	118.0	ESE
03:00 AM - 04:00 AM	0.5	153.0	SSE	1.0	121.0	ESE	0.6	164.0	SSE	0.8	191.0	S	0.3	116.0	ESE	0.9	98.0	E	1.0	200.0	SSW
04:00 AM - 05:00 AM	2.0	347.0	NNW	1.2	231.0	SW	2.2	225.0	SW	3.0	214.0	SW	1.5	247.0	WSW	1.2	124.0	SE	0.6	167.0	SSE
05:00 AM - 06:00 AM	0.8	346.0	NNW	1.9	243.0	WSW	1.2	239.0	WSW	1.8	236.0	SW	0.8	194.0	SSW	1.6	130.0	SE	2.1	251.0	WSW
06:00 AM - 07:00 AM	1.6	283.0	WNW	2.0	151.0	SSE	0.8	236.0	SW	2.4	241.0	WSW	2.3	253.0	WSW	0.3	191.0	S	0.8	347.0	NNW
07:00 AM - 08:00 AM	1.6	343.0	NNW	2.6	289.0	WNW	2.5	270.0	W	0.9	163.0	SSE	2.0	245.0	WSW	1.0	139.0	SE	1.0	355.0	N
08:00 AM - 09:00 AM	0.7	345.0	NNW	0.1	-	-	1.4	218.0	SW	0.9	216.0	SW	0.1	-	-	2.3	169.0	S	0.8	320.0	NW
09:00 AM - 10:00 AM	3.1	299.0	WNW	0.4	169.0	S	3.4	239.0	WSW	2.4	208.0	SSW	1.4	209.0	SSW	2.6	211.0	SSW	2.0	288.0	WNW
10:00 AM - 11:00 AM	1.0	286.0	WNW	1.6	156.0	SSE	4.3	281.0	W	3.0	214.0	SW	3.3	258.0	WSW	2.5	222.0	SW	1.3	120.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

Lot ID: 24101655

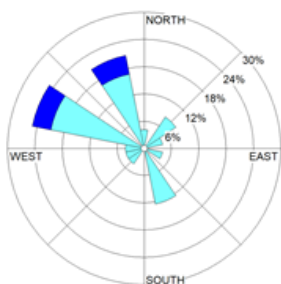
Date Received :Oct 09, 2024

Date Reported :Oct 16, 2024

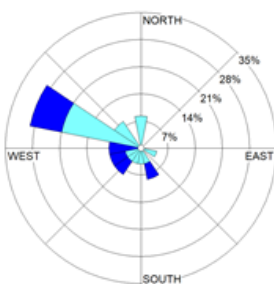
Report Number :3134164-1

Page 2 of 2

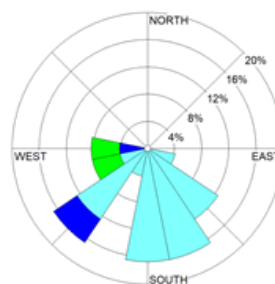
Wind Rose



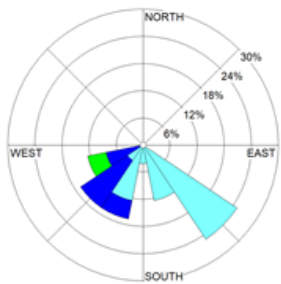
Date : Sep 27-28, 2024



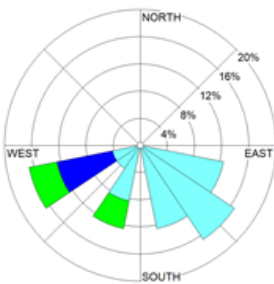
Date : Sep 28-29, 2024



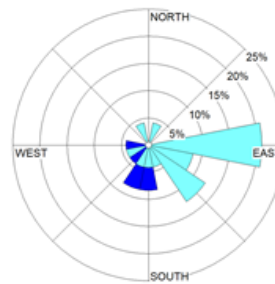
Date : Sep 29-30, 2024



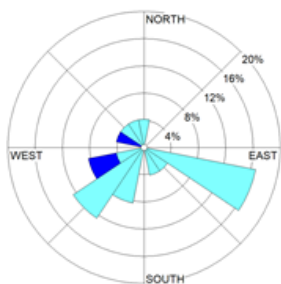
Date : Sep 30-Oct 01, 2024



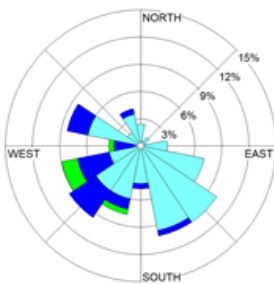
Date : Oct 01-02, 2024



Date : Oct 02-03, 2024



Date : Oct 03-04, 2024



Date : Sep 27-Oct 04, 2024

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	2.98
1.7-3.3	14.88
0.3-1.7	66.07
Calms	16.07

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Approved by

Sarayuth Jitranont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบายอากาศ



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 2330566
Date Received : Dec 15, 2023
Date Reported : Dec 21, 2023
Report Number : 2598412-1

Page 1 of 1

Sample Number 2330566-1
Sample Description Emission from Stationary Source
Location HRSG 11
Sampled Date Dec 15, 2023

Stack Description

Ambient Temperature	32	°C	Diameter	7.00	m	Oxygen	12.62	%
Ambient Pressure	749	mmHg	Shape	Circle		Carbon dioxide	4.60	%
Type of Process	Combustion		Stack Temperature	106	°C	Gas Velocity	15.86	m/s
Type of Fuel	Natural Gas		Moisture	8.98	%	Flow Rate	1548292	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)		Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	10:30 AM - 10:50 AM	12.62	4.60	1.84	3.09	36.84	61.86	0.26	0.43
2	10:51 AM - 11:11 AM	12.61	4.60	1.73	2.89	37.48	62.86	0.08	0.13
3	11:12 AM - 11:32 AM	12.62	4.60	1.64	2.76	37.57	63.04	0.07	0.12
Average (ppm)		12.62	4.60	1.74	2.91	37.30	62.59	0.13	0.23
Guideline ^{1/} (ppm)				-	250	-	100	-	-
Guideline ^{2/} (ppm)				-	-	-	120	-	20
Guideline ^{3/} (ppm)				-	690	-	-	-	-
Result (mg/Nm ³)				1.99	3.34	70.17	117.75	0.35	0.59
Emission Rate at Actual O ₂ (g/s)				0.855		30.181		0.151	
Guideline ^{1/} (g/s)				78.600		51.600		-	
Method				US EPA Method 10		US EPA Method 7E		US EPA Method 6C	

Sampled By : Worawich Tongpoom

Guideline : ^{1/} Environmental Impact Assessment Report of Glow IPP Co., Ltd.

^{2/} Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

^{3/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-4702

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 2330985

Date Received : Dec 15, 2023
Date Reported : Dec 23, 2023
Report Number: 2598407-1

Page 1 of 2

Sample Number 2330985-1
Sampled Date Dec 15, 2023
Sample Description Emission from Stationary Source
Location HRSG 11
Date Analysis Commenced Dec 19, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	749	mmHg	Diameter	7.00	m	Oxygen	12.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.6	%
Type of Process	Combustion		Stack Temperature	106	°C	Gas Velocity	15.8	m/s
Type of Fuel	Natural Gas		Moisture	9.00	%	Flow Rate (Actual O2)	1546450	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 12.6 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	10:30 AM - 11:18 AM	mg/m3	-	0.5	<0.5	<0.5	60	20	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

Guideline (1) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
Guideline (2) Environmental Impact Assessment Report of Glow IPP Co., Ltd.

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Life Sciences

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1942-51/ EMAIL

S:\Reports_Air Stack_O2_2GL.rpt (3:10PM)



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 2330985

Date Received : Dec 15, 2023
Date Reported : Dec 23, 2023
Report Number: 2598407-1

Page 2 of 2

Sample Number 2330985-1
Sampled Date Dec 15, 2023
Sample Description Emission from Stationary Source
Location HRSG 11
Date Analysis Commenced Dec 19, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	749	mmHg	Diameter	7.00	m	Oxygen	12.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	4.6	%
Type of Process	Combustion		Stack Temperature	106	°C	Gas Velocity	15.8	m/s
Type of Fuel	Natural Gas		Moisture	9.00	%	Flow Rate (Actual O2)	1546450	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:30 AM - 11:18 AM	g/s	-	-	<0.21	-	4.67	Calculated	Bangkok

Guideline :

Guideline (1) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
Guideline (2) Environmental Impact Assessment Report of Glow IPP Co., Ltd.

Sampled By : Anuvat Moungpai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 2392013
Date Received :Aug 07, 2023
Date Reported :Aug 09, 2023
Report Number :2739188-1

Page 1 of 1

Sample Number 2392013-1
Sample Description Emission from Stationary Source
Location HRSG 21
Sampled Date Aug 07, 2023

Stack Description

Ambient Temperature	32	°C	Diameter	7.00	m	Oxygen	11.81	%
Ambient Pressure	747	mmHg	Shape	Circle		Carbon dioxide	5.02	%
Type of Process	Combustion		Stack Temperature	105	°C	Gas Velocity	20.97	m/s
Type of Fuel	Natural Gas		Moisture	9.87	%	Flow Rate	2026629	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)		Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	11:00 AM - 11:20 AM	11.79	5.00	2.75	4.20	18.30	27.92	0.31	0.47
2	11:21 AM - 11:41 AM	11.81	5.03	3.69	5.63	17.80	27.20	0.15	0.23
3	11:42 AM - 12:02 PM	11.83	5.05	3.53	5.41	16.72	25.62	0.14	0.21
Average (ppm)		11.81	5.02	3.32	5.08	17.60	26.92	0.20	0.31
Guideline ^{1/} (ppm)				-	250	-	100	-	-
Guideline ^{2/} (ppm)				-	-	-	120	-	20
Guideline ^{3/} (ppm)				-	690	-	-	-	-
Result (mg/Nm ³)				3.80	5.82	33.12	50.64	0.52	0.80
Emission Rate at Actual O ₂ (g/s)				2.142		18.646		0.295	
Guideline ^{1/} (g/s)				78.600		51.600		-	
Method				US EPA Method 10		US EPA Method 7E		US EPA Method 6C	

Sampled By : Worawich Tongpoom

Guideline : ^{1/} Environmental Impact Assessment Report of Glow IPP Co., Ltd.

^{2/} Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

^{3/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-4702

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 2330994

Date Received : Aug 07, 2023
Date Reported : Aug 12, 2023
Report Number: 2598406-1

Page 1 of 2

Sample Number 2330994-1
Sampled Date Aug 07, 2023
Sample Description Emission from Stationary Source
Location HRSG 21
Date Analysis Commenced Aug 08, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	747	mmHg	Diameter	7.00	m	Oxygen	11.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	5.0	%
Type of Process	Combustion		Stack Temperature	105	°C	Gas Velocity	21.0	m/s
Type of Fuel	Natural Gas		Moisture	9.87	%	Flow Rate (Actual O2)	2026680	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 11.8 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	11:00 AM - 12:00 PM	mg/m3	-	0.5	<0.5	<0.5	120	35	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

Guideline (1) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
Guideline (2) Environmental Impact Assessment Report of Glow IPP Co., Ltd.

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 2330994

Date Received : Aug 07, 2023
Date Reported : Aug 12, 2023
Report Number: 2598406-1

Page 2 of 2

Sample Number 2330994-1
Sampled Date Aug 07, 2023
Sample Description Emission from Stationary Source
Location HRSG 21
Date Analysis Commenced Aug 08, 2023
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	747	mmHg	Diameter	7.00	m	Oxygen	11.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	5.0	%
Type of Process	Combustion		Stack Temperature	105	°C	Gas Velocity	21.0	m/s
Type of Fuel	Natural Gas		Moisture	9.87	%	Flow Rate (Actual O2)	2026680	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:00 AM - 12:00 PM	g/s	-	-	<0.28	-	10.30	Calculated	Bangkok

Guideline :

Guideline (1) Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).
Guideline (2) Environmental Impact Assessment Report of Glow IPP Co., Ltd.

Sampled By : Ussaree Namburee

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Life Sciences

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S:\Reports_Air Stack_O2_2GL.rpt (3:46PM)

ภาคผนวก ค-3

ผลการตรวจวัดระดับเสียงโดยทั่วไป



Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138135-1

Page 1 of 1

Sample Number 24101691-1
Parameter Noise (Leq 24 hrs.)
Location East of fence (GPS 47P 0726307, 1447633)
Measurement Date Oct 04 - Oct 05, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	57.9	86.8	51.8
03:00 PM - 04:00 PM	54.2	70.4	51.6
04:00 PM - 05:00 PM	52.7	70.2	51.0
05:00 PM - 06:00 PM	53.2	73.4	51.4
06:00 PM - 07:00 PM	54.2	68.5	52.9
07:00 PM - 08:00 PM	52.9	65.4	51.3
08:00 PM - 09:00 PM	59.2	68.8	51.4
09:00 PM - 10:00 PM	60.6	69.1	52.9
10:00 PM - 11:00 PM	60.1	67.0	52.6
11:00 PM - 12:00 AM	51.3	64.5	50.2
12:00 AM - 01:00 AM	53.4	66.3	49.8
01:00 AM - 02:00 AM	62.3	68.7	60.1
02:00 AM - 03:00 AM	55.8	77.6	49.5
03:00 AM - 04:00 AM	58.0	79.0	50.2
04:00 AM - 05:00 AM	53.2	71.0	49.9
05:00 AM - 06:00 AM	52.0	70.0	50.4
06:00 AM - 07:00 AM	52.1	62.6	50.7
07:00 AM - 08:00 AM	52.3	66.6	50.4
08:00 AM - 09:00 AM	51.8	66.3	49.8
09:00 AM - 10:00 AM	59.8	73.3	50.7
10:00 AM - 11:00 AM	55.8	70.3	50.3
11:00 AM - 12:00 PM	51.3	66.3	49.3
12:00 PM - 01:00 PM	50.3	69.8	48.5
01:00 PM - 02:00 PM	55.6	73.9	49.3

Leq Average 24 hrs. (dB(A)) 56.4
Lmax (dB(A)) 86.8
L90 (dB(A)) 50.4
Ldn (dB(A)) 63.4
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report



TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138136-1

Page 1 of 1

Sample Number 24101691-2
Parameter Noise (Leq 24 hrs.)
Location East of fence (GPS 47P 0726307, 1447633)
Measurement Date Oct 05 - Oct 06, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	51.1	67.9	49.1
03:00 PM - 04:00 PM	51.0	69.9	49.5
04:00 PM - 05:00 PM	52.0	67.8	49.5
05:00 PM - 06:00 PM	59.8	68.5	52.2
06:00 PM - 07:00 PM	60.0	68.4	54.0
07:00 PM - 08:00 PM	57.9	68.7	51.6
08:00 PM - 09:00 PM	52.1	61.8	50.6
09:00 PM - 10:00 PM	51.9	62.4	50.4
10:00 PM - 11:00 PM	51.6	65.6	50.1
11:00 PM - 12:00 AM	51.6	69.6	50.0
12:00 AM - 01:00 AM	51.6	72.4	49.5
01:00 AM - 02:00 AM	50.3	63.0	48.5
02:00 AM - 03:00 AM	50.0	65.1	48.4
03:00 AM - 04:00 AM	50.1	58.3	48.5
04:00 AM - 05:00 AM	50.4	61.9	48.8
05:00 AM - 06:00 AM	52.3	73.0	49.5
06:00 AM - 07:00 AM	51.4	69.3	49.5
07:00 AM - 08:00 AM	50.9	63.8	49.0
08:00 AM - 09:00 AM	52.1	69.0	49.1
09:00 AM - 10:00 AM	54.4	67.8	53.0
10:00 AM - 11:00 AM	54.4	69.5	53.2
11:00 AM - 12:00 PM	54.0	61.9	50.3
12:00 PM - 01:00 PM	49.8	60.7	48.2
01:00 PM - 02:00 PM	50.3	66.5	48.6

Leq Average 24 hrs. (dB(A)) 53.8
Lmax (dB(A)) 73.0
L90 (dB(A)) 49.5
Ldn (dB(A)) 58.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report



TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138137-1

Page 1 of 1

Sample Number 24101691-3
Parameter Noise (Leq 24 hrs.)
Location East of fence (GPS 47P 0726307, 1447633)
Measurement Date Oct 06 - Oct 07, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	50.3	66.1	48.8
03:00 PM - 04:00 PM	51.4	70.3	49.4
04:00 PM - 05:00 PM	51.0	68.8	49.3
05:00 PM - 06:00 PM	59.4	71.3	51.0
06:00 PM - 07:00 PM	61.5	69.0	59.7
07:00 PM - 08:00 PM	60.0	75.5	53.1
08:00 PM - 09:00 PM	52.6	65.4	50.0
09:00 PM - 10:00 PM	51.3	62.3	49.9
10:00 PM - 11:00 PM	59.2	70.3	50.4
11:00 PM - 12:00 AM	60.3	68.9	50.6
12:00 AM - 01:00 AM	52.6	71.4	48.9
01:00 AM - 02:00 AM	51.3	56.2	48.7
02:00 AM - 03:00 AM	50.1	57.7	48.7
03:00 AM - 04:00 AM	50.0	57.4	48.5
04:00 AM - 05:00 AM	50.7	57.0	49.1
05:00 AM - 06:00 AM	52.8	73.6	50.3
06:00 AM - 07:00 AM	52.4	70.0	50.6
07:00 AM - 08:00 AM	52.1	65.6	50.4
08:00 AM - 09:00 AM	55.3	66.9	50.7
09:00 AM - 10:00 AM	54.8	68.2	50.3
10:00 AM - 11:00 AM	51.9	71.5	50.0
11:00 AM - 12:00 PM	50.6	61.6	49.2
12:00 PM - 01:00 PM	50.2	61.7	48.4
01:00 PM - 02:00 PM	51.3	66.1	49.3

Leq Average 24 hrs. (dB(A)) 55.3
Lmax (dB(A)) 75.5
L90 (dB(A)) 49.9
Ldn (dB(A)) 61.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report



TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138138-1

Page 1 of 1

Sample Number 24101691-4
Parameter Noise (Leq 24 hrs.)
Location Ban Bowin (GPS 47P 0723626, 1444322)
Measurement Date Oct 04 - Oct 05, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.3	77.5	49.7
03:00 PM - 04:00 PM	58.2	79.5	50.1
04:00 PM - 05:00 PM	61.2	87.0	49.9
05:00 PM - 06:00 PM	59.0	79.9	48.2
06:00 PM - 07:00 PM	58.7	82.1	51.7
07:00 PM - 08:00 PM	56.8	78.5	48.0
08:00 PM - 09:00 PM	55.8	74.3	45.5
09:00 PM - 10:00 PM	56.0	79.3	43.8
10:00 PM - 11:00 PM	52.7	74.0	42.0
11:00 PM - 12:00 AM	54.3	79.7	39.0
12:00 AM - 01:00 AM	50.5	74.5	38.1
01:00 AM - 02:00 AM	53.5	81.1	37.9
02:00 AM - 03:00 AM	51.9	74.4	39.9
03:00 AM - 04:00 AM	48.5	66.3	39.5
04:00 AM - 05:00 AM	54.4	78.9	42.5
05:00 AM - 06:00 AM	56.5	80.1	45.4
06:00 AM - 07:00 AM	58.7	80.6	48.1
07:00 AM - 08:00 AM	58.0	79.6	48.7
08:00 AM - 09:00 AM	59.5	79.5	47.4
09:00 AM - 10:00 AM	58.0	76.8	46.7
10:00 AM - 11:00 AM	58.6	80.6	45.9
11:00 AM - 12:00 PM	58.0	81.7	44.4
12:00 PM - 01:00 PM	58.6	82.8	43.1
01:00 PM - 02:00 PM	58.1	78.6	44.6

Leq Average 24 hrs. (dB(A)) 57.3
Lmax (dB(A)) 87.0
L90 (dB(A)) 45.4
Ldn (dB(A)) 61.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138139-1

Page 1 of 1

Sample Number 24101691-5
Parameter Noise (Leq 24 hrs.)
Location Ban Bowin (GPS 47P 0723626, 1444322)
Measurement Date Oct 05 - Oct 06, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	57.9	78.6	44.9
03:00 PM - 04:00 PM	58.4	80.3	46.5
04:00 PM - 05:00 PM	60.2	80.8	49.6
05:00 PM - 06:00 PM	58.9	81.8	49.7
06:00 PM - 07:00 PM	58.3	79.2	51.1
07:00 PM - 08:00 PM	58.4	82.6	50.7
08:00 PM - 09:00 PM	55.2	78.8	46.7
09:00 PM - 10:00 PM	56.5	82.3	45.0
10:00 PM - 11:00 PM	54.8	78.2	45.8
11:00 PM - 12:00 AM	54.9	82.3	44.8
12:00 AM - 01:00 AM	55.6	81.1	44.3
01:00 AM - 02:00 AM	53.7	79.4	44.2
02:00 AM - 03:00 AM	52.0	74.9	44.2
03:00 AM - 04:00 AM	51.7	71.0	44.6
04:00 AM - 05:00 AM	52.2	75.3	44.7
05:00 AM - 06:00 AM	55.6	80.0	43.1
06:00 AM - 07:00 AM	58.7	83.7	44.4
07:00 AM - 08:00 AM	59.2	83.4	46.1
08:00 AM - 09:00 AM	57.6	78.6	47.4
09:00 AM - 10:00 AM	57.8	80.9	48.1
10:00 AM - 11:00 AM	58.7	80.8	46.9
11:00 AM - 12:00 PM	57.8	78.1	47.5
12:00 PM - 01:00 PM	57.6	79.4	45.5
01:00 PM - 02:00 PM	58.4	84.3	45.4

Leq Average 24 hrs. (dB(A)) 57.2
Lmax (dB(A)) 84.3
L90 (dB(A)) 45.5
Ldn (dB(A)) 62.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report



TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138140-1

Page 1 of 1

Sample Number 24101691-6
Parameter Noise (Leq 24 hrs.)
Location Ban Bowin (GPS 47P 0723626, 1444322)
Measurement Date Oct 06 - Oct 07, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	57.3	78.9	46.2
03:00 PM - 04:00 PM	59.4	80.3	48.9
04:00 PM - 05:00 PM	59.3	83.6	48.5
05:00 PM - 06:00 PM	57.7	81.1	48.6
06:00 PM - 07:00 PM	56.3	77.8	49.3
07:00 PM - 08:00 PM	58.6	84.6	49.0
08:00 PM - 09:00 PM	56.8	77.8	49.2
09:00 PM - 10:00 PM	57.0	77.1	51.5
10:00 PM - 11:00 PM	55.7	74.9	51.5
11:00 PM - 12:00 AM	55.4	79.7	49.6
12:00 AM - 01:00 AM	54.0	76.5	47.1
01:00 AM - 02:00 AM	49.2	68.1	41.0
02:00 AM - 03:00 AM	49.8	72.1	38.2
03:00 AM - 04:00 AM	51.1	71.3	43.7
04:00 AM - 05:00 AM	51.8	70.7	41.9
05:00 AM - 06:00 AM	57.2	78.5	46.1
06:00 AM - 07:00 AM	61.0	82.1	52.0
07:00 AM - 08:00 AM	59.3	81.9	48.9
08:00 AM - 09:00 AM	58.6	83.1	46.4
09:00 AM - 10:00 AM	59.1	81.3	45.1
10:00 AM - 11:00 AM	57.5	77.0	45.1
11:00 AM - 12:00 PM	57.0	76.2	43.1
12:00 PM - 01:00 PM	57.6	82.4	44.0
01:00 PM - 02:00 PM	57.8	78.9	45.3

Leq Average 24 hrs. (dB(A)) 57.3
Lmax (dB(A)) 84.6
L90 (dB(A)) 46.4
Ldn (dB(A)) 62.4
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138141-1

Page 1 of 1

Sample Number 24101691-7
Parameter Noise (Leq 24 hrs.)
Location Ban Huai Hien (GPS 47P 0723114, 1444751)
Measurement Date Oct 04 - Oct 05, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	56.4	78.9	42.7
03:00 PM - 04:00 PM	54.8	77.4	41.3
04:00 PM - 05:00 PM	53.2	69.8	41.9
05:00 PM - 06:00 PM	52.6	76.9	42.6
06:00 PM - 07:00 PM	52.7	73.0	43.8
07:00 PM - 08:00 PM	51.8	71.6	43.4
08:00 PM - 09:00 PM	51.5	75.3	41.6
09:00 PM - 10:00 PM	49.7	74.7	41.2
10:00 PM - 11:00 PM	49.2	75.3	39.7
11:00 PM - 12:00 AM	41.7	60.1	36.9
12:00 AM - 01:00 AM	44.9	68.4	36.8
01:00 AM - 02:00 AM	47.6	76.3	35.6
02:00 AM - 03:00 AM	46.9	71.7	35.3
03:00 AM - 04:00 AM	47.2	68.7	35.8
04:00 AM - 05:00 AM	52.4	75.6	38.1
05:00 AM - 06:00 AM	52.9	73.1	38.6
06:00 AM - 07:00 AM	54.5	74.5	39.8
07:00 AM - 08:00 AM	54.5	75.2	40.9
08:00 AM - 09:00 AM	51.4	74.0	37.9
09:00 AM - 10:00 AM	52.1	78.7	36.7
10:00 AM - 11:00 AM	49.5	73.4	36.6
11:00 AM - 12:00 PM	52.4	74.6	37.6
12:00 PM - 01:00 PM	54.7	79.2	52.4
01:00 PM - 02:00 PM	53.5	71.9	51.2

Leq Average 24 hrs. (dB(A)) 52.2
Lmax (dB(A)) 79.2
L90 (dB(A)) 39.7
Ldn (dB(A)) 57.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138142-1

Page 1 of 1

Sample Number 24101691-8
Parameter Noise (Leq 24 hrs.)
Location Ban Huai Hien (GPS 47P 0723114, 1444751)
Measurement Date Oct 05 - Oct 06, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	50.6	73.3	38.4
03:00 PM - 04:00 PM	49.4	73.9	38.2
04:00 PM - 05:00 PM	53.1	74.1	39.8
05:00 PM - 06:00 PM	54.9	78.3	44.5
06:00 PM - 07:00 PM	51.3	72.7	42.3
07:00 PM - 08:00 PM	51.7	76.8	40.9
08:00 PM - 09:00 PM	49.3	75.2	42.0
09:00 PM - 10:00 PM	48.2	65.7	42.2
10:00 PM - 11:00 PM	49.8	73.0	41.9
11:00 PM - 12:00 AM	47.6	73.3	40.5
12:00 AM - 01:00 AM	44.8	66.8	39.5
01:00 AM - 02:00 AM	46.5	70.2	36.1
02:00 AM - 03:00 AM	43.2	67.7	34.7
03:00 AM - 04:00 AM	45.3	68.6	36.2
04:00 AM - 05:00 AM	50.0	70.7	34.8
05:00 AM - 06:00 AM	53.5	72.2	34.7
06:00 AM - 07:00 AM	55.3	74.1	38.3
07:00 AM - 08:00 AM	55.2	75.6	39.3
08:00 AM - 09:00 AM	54.0	77.6	41.1
09:00 AM - 10:00 AM	52.8	79.1	40.8
10:00 AM - 11:00 AM	51.5	74.5	41.3
11:00 AM - 12:00 PM	51.5	78.8	40.1
12:00 PM - 01:00 PM	52.3	72.8	41.8
01:00 PM - 02:00 PM	50.6	76.3	36.9

Leq Average 24 hrs. (dB(A)) 51.6
Lmax (dB(A)) 79.1
L90 (dB(A)) 39.8
Ldn (dB(A)) 57.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138143-1

Page 1 of 1

Sample Number 24101691-9
Parameter Noise (Leq 24 hrs.)
Location Ban Huai Hien (GPS 47P 0723114, 1444751)
Measurement Date Oct 06 - Oct 07, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	51.4	75.3	39.0
03:00 PM - 04:00 PM	52.6	77.7	40.3
04:00 PM - 05:00 PM	54.5	76.6	43.3
05:00 PM - 06:00 PM	55.0	79.8	43.5
06:00 PM - 07:00 PM	53.7	77.6	42.6
07:00 PM - 08:00 PM	49.0	69.7	43.3
08:00 PM - 09:00 PM	53.2	75.0	42.4
09:00 PM - 10:00 PM	49.4	76.8	40.3
10:00 PM - 11:00 PM	47.8	71.7	40.3
11:00 PM - 12:00 AM	45.9	69.2	40.5
12:00 AM - 01:00 AM	45.2	70.8	37.5
01:00 AM - 02:00 AM	45.9	70.1	35.7
02:00 AM - 03:00 AM	42.2	67.9	33.8
03:00 AM - 04:00 AM	46.2	69.0	33.5
04:00 AM - 05:00 AM	51.3	72.1	33.6
05:00 AM - 06:00 AM	52.5	72.5	37.1
06:00 AM - 07:00 AM	53.1	77.7	40.8
07:00 AM - 08:00 AM	54.9	71.6	41.5
08:00 AM - 09:00 AM	53.6	74.8	38.8
09:00 AM - 10:00 AM	50.1	69.4	38.4
10:00 AM - 11:00 AM	48.1	67.8	36.1
11:00 AM - 12:00 PM	51.3	75.3	36.0
12:00 PM - 01:00 PM	47.8	66.1	36.3
01:00 PM - 02:00 PM	48.5	73.1	37.1

Leq Average 24 hrs. (dB(A)) 51.3
Lmax (dB(A)) 79.8
L90 (dB(A)) 38.8
Ldn (dB(A)) 56.2
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138144-1

Page 1 of 1

Sample Number 24101691-10
Parameter Noise (Leq 24 hrs.)
Location Ban Pansadet Nok (GPS 47P 0729706, 1447657)
Measurement Date Oct 04 - Oct 05, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 623390

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	58.2	79.6	51.2
03:00 PM - 04:00 PM	56.7	80.5	49.3
04:00 PM - 05:00 PM	56.5	79.4	46.3
05:00 PM - 06:00 PM	56.7	81.6	46.1
06:00 PM - 07:00 PM	57.0	82.1	43.7
07:00 PM - 08:00 PM	58.1	86.2	43.5
08:00 PM - 09:00 PM	55.0	82.9	42.5
09:00 PM - 10:00 PM	53.0	78.1	41.7
10:00 PM - 11:00 PM	53.2	80.9	41.1
11:00 PM - 12:00 AM	49.2	77.9	40.4
12:00 AM - 01:00 AM	47.1	69.3	39.8
01:00 AM - 02:00 AM	47.6	76.9	38.3
02:00 AM - 03:00 AM	44.0	70.5	36.6
03:00 AM - 04:00 AM	44.6	66.6	38.7
04:00 AM - 05:00 AM	46.4	73.0	39.8
05:00 AM - 06:00 AM	52.0	72.5	42.6
06:00 AM - 07:00 AM	52.8	71.6	45.1
07:00 AM - 08:00 AM	57.1	79.0	47.5
08:00 AM - 09:00 AM	56.1	79.9	46.8
09:00 AM - 10:00 AM	54.1	76.9	46.8
10:00 AM - 11:00 AM	55.0	80.4	45.5
11:00 AM - 12:00 PM	53.9	73.6	44.5
12:00 PM - 01:00 PM	52.9	77.0	44.6
01:00 PM - 02:00 PM	55.1	80.9	44.6

Leq Average 24 hrs. (dB(A)) 54.5
Lmax (dB(A)) 86.2
L90 (dB(A)) 43.7
Ldn (dB(A)) 57.8
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report

TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138145-1

Page 1 of 1

Sample Number 24101691-11
Parameter Noise (Leq 24 hrs.)
Location Ban Pansadet Nok (GPS 47P 0729706, 1447657)
Measurement Date Oct 05 - Oct 06, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 623390

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	53.7	76.8	43.5
03:00 PM - 04:00 PM	56.6	77.9	46.2
04:00 PM - 05:00 PM	59.0	86.6	50.2
05:00 PM - 06:00 PM	57.5	77.2	48.2
06:00 PM - 07:00 PM	55.7	80.0	45.1
07:00 PM - 08:00 PM	54.7	77.5	44.5
08:00 PM - 09:00 PM	53.9	74.5	42.2
09:00 PM - 10:00 PM	55.2	81.5	42.4
10:00 PM - 11:00 PM	50.1	75.0	40.9
11:00 PM - 12:00 AM	49.4	73.6	36.8
12:00 AM - 01:00 AM	48.9	73.4	37.4
01:00 AM - 02:00 AM	47.4	73.1	39.8
02:00 AM - 03:00 AM	46.7	70.8	42.3
03:00 AM - 04:00 AM	47.0	71.4	42.7
04:00 AM - 05:00 AM	52.4	81.6	41.9
05:00 AM - 06:00 AM	50.1	70.3	40.7
06:00 AM - 07:00 AM	54.2	77.2	41.6
07:00 AM - 08:00 AM	56.7	80.3	43.0
08:00 AM - 09:00 AM	56.2	82.8	46.0
09:00 AM - 10:00 AM	54.7	79.6	46.3
10:00 AM - 11:00 AM	55.1	76.1	46.0
11:00 AM - 12:00 PM	54.0	79.9	44.2
12:00 PM - 01:00 PM	53.5	80.8	42.1
01:00 PM - 02:00 PM	52.7	88.9	39.5

Leq Average 24 hrs. (dB(A)) 54.3
Lmax (dB(A)) 88.9
L90 (dB(A)) 42.4
Ldn (dB(A)) 58.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head



Analysis / Test Report



TESTING
No.0042

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101691

Date Received : Oct 09, 2024
Date Reported : Oct 16, 2024
Report Number: 3138146-1

Page 1 of 1

Sample Number 24101691-12
Parameter Noise (Leq 24 hrs.)
Location Ban Pansadet Nok (GPS 47P 0729706, 1447657)
Measurement Date Oct 06 - Oct 07, 2024
Measurement by Anurak Tongkhajonsakda
Sound Level meter Serial No. 623390

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	52.4	74.9	40.9
03:00 PM - 04:00 PM	55.9	76.5	44.5
04:00 PM - 05:00 PM	55.9	72.8	48.2
05:00 PM - 06:00 PM	52.2	72.4	47.3
06:00 PM - 07:00 PM	54.5	70.1	46.9
07:00 PM - 08:00 PM	52.1	75.5	44.4
08:00 PM - 09:00 PM	51.1	81.6	41.0
09:00 PM - 10:00 PM	45.8	68.3	39.8
10:00 PM - 11:00 PM	43.8	63.2	40.3
11:00 PM - 12:00 AM	48.5	76.1	41.0
12:00 AM - 01:00 AM	41.7	63.0	38.8
01:00 AM - 02:00 AM	47.7	70.8	40.2
02:00 AM - 03:00 AM	51.3	70.6	36.7
03:00 AM - 04:00 AM	53.4	76.5	38.8
04:00 AM - 05:00 AM	56.4	78.9	42.7
05:00 AM - 06:00 AM	56.2	80.1	41.7
06:00 AM - 07:00 AM	53.5	75.2	38.7
07:00 AM - 08:00 AM	50.3	75.8	36.3
08:00 AM - 09:00 AM	51.4	72.6	42.0
09:00 AM - 10:00 AM	51.2	79.2	40.3
10:00 AM - 11:00 AM	49.7	74.6	41.8
11:00 AM - 12:00 PM	52.9	77.7	42.8
12:00 PM - 01:00 PM	54.8	85.6	43.2
01:00 PM - 02:00 PM	57.9	75.8	46.8

Leq Average 24 hrs. (dB(A)) 53.1
Lmax (dB(A)) 85.6
L90 (dB(A)) 41.0
Ldn (dB(A)) 59.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head

ภาคผนวก ค-4

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0042

Lot ID: 2468568

Date Received : Jul 04, 2024

Date Reported : Jul 11, 2024

Report Number : 3052288-1

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Page 1 of 2

Sample Number	2468568-2
Sampled Date	Jul 04, 2024 9:37 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Jul 04, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	2	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	30.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	200	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location: Glow IPP

TESTING
No.0042
Lot ID: 2468568
Date Received : Jul 04, 2024
Date Reported : Jul 11, 2024
Report Number : 3052288-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Lot ID: 2468568

Date Received : Jul 04, 2024

Date Reported : Jul 11, 2024

Report Number : 3052288-3

Page 1 of 1

Sample Number	2468568-2
Sampled Date	Jul 04, 2024 9:37 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Jul 04, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	No Velocity	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2486958

Date Received : Aug 01, 2024

Date Reported : Aug 08, 2024

Report Number : 3078519-1

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Page 1 of 2

Sample Number	2486958-2
Sampled Date	Aug 01, 2024 10:13 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	29	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location: Glow IPP

TESTING
No.0042
Lot ID: 2486958
Date Received : Aug 01, 2024
Date Reported : Aug 08, 2024
Report Number : 3078519-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

Approved by

D. Changchon.

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Lot ID: 2486958

Date Received : Aug 01, 2024

Date Reported : Aug 08, 2024

Report Number : 3078519-3

Page 1 of 1

Sample Number	2486958-2
Sampled Date	Aug 01, 2024 10:13 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Aug 01, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	No Report	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Note : ไม่สามารถวัด Flow rate ได้ เนื่องจากพื้นที่ไม่เหมาะสม

Sampling By : Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24101779

Date Received : Sep 05, 2024

Date Reported : Sep 12, 2024

Report Number : 3109593-1

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Page 1 of 2

Sample Number	24101779-1
Sampled Date	Sep 05, 2024 10:10 AM
Sample Description	Wastewater
Location	Polishing Pond
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	1	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	162	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

TESTING
No.0042
Lot ID: 24101779
Date Received : Sep 05, 2024
Date Reported : Sep 12, 2024
Report Number : 3109593-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Client : Glow IPP Co., Ltd.
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P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101779

Date Received : Sep 05, 2024

Date Reported : Sep 12, 2024

Report Number : 3109593-3

Page 1 of 1

Sample Number 24101779-1
Sampled Date Sep 05, 2024 10:10 AM
Sample Description Wastewater
Location Polishing Pond
Date Analysis Commenced Sep 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.003	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Sansoen Khuiyoksui , Pattarapol Sawangjaitam

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24101779

Date Received : Sep 05, 2024

Date Reported : Sep 12, 2024

Report Number : 3109594-1

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Page 1 of 2

Sample Number	24101779-2
Sampled Date	Sep 05, 2024 9:55 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	21.8	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	50	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	2	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	31.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	296	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

TESTING
No.0042
Lot ID: 24101779
Date Received : Sep 05, 2024
Date Reported : Sep 12, 2024
Report Number : 3109594-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Lot ID: 24101779

Date Received : Sep 05, 2024

Date Reported : Sep 12, 2024

Report Number : 3109594-3

Page 1 of 1

Sample Number	24101779-2						
Sampled Date	Sep 05, 2024 9:55 AM						
Sample Description	Wastewater						
Location	Water Quality Checking Pond						
Date Analysis Commenced	Sep 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.001	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Sansoen Khuiyoksui , Pattarapol Sawangjaitam

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

TESTING
No.0042
Lot ID: 24114916
Date Received : Oct 03, 2024
Date Reported : Oct 10, 2024
Report Number : 3134772-1

Page 1 of 2

Sample Number 24114916-2
Sampled Date Oct 03, 2024 9:55 AM
Sample Description Wastewater
Location Water Quality Checking Pond
Date Analysis Commenced Oct 03, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.5	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	45	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	2	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	30.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	232	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
ทะเบียนเลขที่ ว-323-จ-0031

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location: Glow IPP

TESTING
No.0042
Lot ID: 24114916
Date Received : Oct 03, 2024
Date Reported : Oct 10, 2024
Report Number : 3134772-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
ทะเบียนเลขที่ ว-323-จ-0031

Approved by

D. Chumson

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Lot ID: 24114916

Date Received : Oct 03, 2024

Date Reported : Oct 10, 2024

Report Number : 3134772-3

Page 1 of 1

Sample Number	24114916-2
Sampled Date	Oct 03, 2024 9:55 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Oct 03, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	No Velocity	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Sansoen Khuiyoksui , Pattarapol Sawangjaitam

Remark :

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Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24121520

Date Received : Nov 07, 2024

Date Reported : Nov 14, 2024

Report Number : 3166565-1

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Page 1 of 2

Sample Number	24121520-2
Sampled Date	Nov 07, 2024 9:10 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Nov 07, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	9.2	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	44	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	2	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	0.7	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	29.9	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	204	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location: Glow IPP

TESTING
No.0042
Lot ID: 24121520
Date Received : Nov 07, 2024
Date Reported : Nov 14, 2024
Report Number : 3166565-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon.

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Lot ID: 24121520

Date Received : Nov 07, 2024

Date Reported : Nov 14, 2024

Report Number : 3166565-3

Page 1 of 1

Sample Number	24121520-2
Sampled Date	Nov 07, 2024 9:10 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Nov 07, 2024
Condition of Sample	Contained in one amber glass bottle, two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	No Report	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

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Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24129170

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192749-1

Client : Glow IPP Co., Ltd.

42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location: Glow IPP

Page 1 of 2

Sample Number	24129170-2
Sampled Date	Dec 06, 2024 9:20 AM
Sample Description	Wastewater
Location	Water Quality Checking Pond
Date Analysis Commenced	Dec 06, 2024
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	60	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	2	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.05	<0.05	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	29.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	256	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon.

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-0001

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P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

TESTING
No.0042
Lot ID: 24129170
Date Received : Dec 06, 2024
Date Reported : Dec 13, 2024
Report Number : 3192749-1

Page 2 of 2

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-0028

Approved by

D. Changchon.

Dej Changchon
Senior Manager

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P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24129170

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192749-3

Page 1 of 1

Sample Number	24129170-2						
Sampled Date	Dec 06, 2024 9:20 AM						
Sample Description	Wastewater						
Location	Water Quality Checking Pond						
Date Analysis Commenced	Dec 06, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	No Report	No Standard	Flow meter	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

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Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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ภาคผนวก ค-5

ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

TESTING

No.0042

Lot ID: 24101789

Date Received : Oct 04, 2024

Date Reported : Oct 09, 2024

Report Number : 3099509-1

Page 1 of 6

Sample Number	24101789-1
Sampled Date	Oct 04, 2024 1:30 PM
Sample Description	Surface Water
Location	เหนือจุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW1)
Date Analysis Commenced	Oct 04, 2024
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate *	m3/s	-	-	0.102	No Standard	Flow meter	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.8	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Chlorine *	mg/L	-	0.01	0.03	No Standard	ISE Application	Bangkok
Sulfate *	mg/L	0.6	2	32.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)	Rayong
Temperature *	Degree C	-	-	30.5	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	298	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	19	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Sampling By : Kosin Khomwisat

Remark :

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Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

TESTING
No.0042
Lot ID: 24101789
Date Received : Oct 04, 2024
Date Reported : Oct 09, 2024
Report Number : 3099509-1

Page 2 of 6

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Chontichak

Chonticha Subongkoch
Scientist (3)

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Client : Glow IPP Co., Ltd.
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P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

TESTING

No.0042

Lot ID: 24101789

Date Received : Oct 04, 2024

Date Reported : Oct 09, 2024

Report Number : 3099509-1

Page 3 of 6

Sample Number	24101789-2
Sampled Date	Oct 04, 2024 1:45 PM
Sample Description	Surface Water
Location	ใกล้จุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW2)
Date Analysis Commenced	Oct 04, 2024
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate *	m3/s	-	-	0.116	No Standard	Flow meter	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	9.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Chlorine *	mg/L	-	0.01	0.02	No Standard	ISE Application	Bangkok
Sulfate *	mg/L	0.6	2	32.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)	Rayong
Temperature *	Degree C	-	-	30.6	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	304	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	32	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Sampling By : Kosin Khomwisat

Remark :

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Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location: Glow IPP

TESTING
No.0042
Lot ID: 24101789
Date Received : Oct 04, 2024
Date Reported : Oct 09, 2024
Report Number : 3099509-1

Page 4 of 6

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Chontichak

Chonticha Subongkoch
Scientist (3)

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230

P/O : GLOW-OM-22-103

Project Name :

Project Location : Glow IPP

TESTING

No.0042

Lot ID: 24101789

Date Received : Oct 04, 2024

Date Reported : Oct 09, 2024

Report Number : 3099509-1

Page 5 of 6

Sample Number	24101789-3
Sampled Date	Oct 04, 2024 2:00 PM
Sample Description	Surface Water
Location	ใต้จุดระบายน้ำทั้งลงสู่ห้วยมะนาว (SW3)
Date Analysis Commenced	Oct 04, 2024
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate *	m3/s	-	-	0.090	No Standard	Flow meter	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	9.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Chlorine *	mg/L	-	0.01	0.05	No Standard	ISE Application	Bangkok
Sulfate *	mg/L	0.6	2	33.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)	Rayong
Temperature *	Degree C	-	-	30.7	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	308	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	34	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Sampling By : Kosin Khomwisat

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

TESTING
No.0042
Lot ID: 24101789
Date Received : Oct 04, 2024
Date Reported : Oct 09, 2024
Report Number : 3099509-1

Page 6 of 6

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ภาคผนวก ค-6

ผลการตรวจวิเคราะห์ชีววิทยาทางน้ำ



สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ. ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : Glow IPP Co., Ltd.

Address : 42 Moo 8 CIE 8 Road, Bowin, Sriracha, Chonburi, Thailand, 20230

Project Location : Glow IPP

รายงานผลการวิเคราะห์แพลงก์ตอนพืช

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 ตุลาคม 2567)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)		
	24101791-1	24101791-2	24101791-3
Division Cyanophyta			
Class Cyanophyceae			
Order Nostocales			
Family Oscillatoriaceae			
1. <i>Oscillatoria anardhii</i>	-	-	21,000
2. <i>Oscillatoria planctonica</i>	12,000	43,000	21,000
3. <i>Oscillatoria</i> sp.	37,000	64,000	85,000
4. <i>Oscillatoria tenuis</i>	12,000	96,000	21,000
Family Nostocaceae			
5. <i>Anabaena</i> sp.	-	-	11,000
Division Chlorophyta			
Class Chlorophyceae			
Order Zygomatales			
Family Desmidiaceae			
6. <i>Cosmarium rectangulare</i>	-	11,000	-

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 ตุลาคม 2567)

(ต่อ)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)		
	24101791-1	24101791-2	24101791-3
Class Euglenophyceae			
Order Euglenales			
Family Euglenaceae			
7. <i>Euglena acus</i>	-	21,000	21,000
8. <i>Lepocinclis ovum</i>	12,000	-	11,000
9. <i>Phacus angulatus</i>	-	11,000	-
10. <i>Phacus hamatus</i>	12,000	11,000	11,000
11. <i>Phacus longicauda</i>	-	11,000	-
12. <i>Phacus</i> sp.	12,000	-	11,000
13. <i>Strombomonas</i> sp.	-	11,000	-
14. <i>Trachelomonas crebea</i>	-	-	11,000
15. <i>Trachelomonas daugerdiana</i>	12,000	11,000	-
16. <i>Trachelomonas rugulosa</i>	12,000	11,000	-
Division Chromophyta			
Class Bacillariophyceae			
Order Biddulphiales			
Suborder Coscinodiscineae			
Family Thalassiosiraceae			
17. <i>Cyclotella stelligera</i>	-	11,000	-
Order Bacillariales			
Suborder Fragilariineae			
Family Fragilariaceae			
18. <i>Fragilaria capucina</i>	-	-	21,000
Suborder Bacillariineae			
Family Naviculaceae			
19. <i>Hantzschia amphioxys</i>	-	-	11,000
20. <i>Pinnularia gibba</i>	-	11,000	-

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 ตุลาคม 2567)

(ต่อ)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)		
	24101791-1	24101791-2	24101791-3
ชนิดแพลงก์ตอนพืช	8	13	12
ปริมาณแพลงก์ตอนพืช	121,000	323,000	256,000
ดัชนีความหลากหลายแพลงก์ตอนพืช	1.9666	2.1634	2.2031
ดัชนีความสม่ำเสมอแพลงก์ตอนพืช	0.9457	0.8434	0.8866

Sample Location :

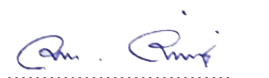
1. สถานี 24101791-1 : เหนือจุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW1)
2. สถานี 24101791-2 : ใกล้จุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW2)
3. สถานี 24101791-3 : ใต้จุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW3)

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)



(นางสาวกนกวรรณ ขาวดอน)

ผู้วิเคราะห์



(นายอลงกต อินทรชาติ)

หัวหน้าสถานีวิจัยประมงศรีราชา



สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ. ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : Glow IPP Co., Ltd.

Address : 42 Moo 8 CIE 8 Road, Bowin, Sriracha, Chonburi, Thailand, 20230

Project Location : Glow IPP

รายงานผลการวิเคราะห์แพลงก์ตอนสัตว์

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 4 ตุลาคม 2567)

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)		
	24101791-1	24101791-2	24101791-3
Phylum Protozoa			
Subphylum Plasmodroma			
Class Sarcodina			
Subclass Rhizopoda			
Order Testacida			
Family Arcellidae			
1. <i>Arcella</i> sp.	-	11,000	11,000
Family Euglyphidae			
2. <i>Euglypha</i> sp.	12,000	-	11,000
Subclass Peritricha			
Order Peritrichida			
3. <i>Vorticella</i> sp.	37,000	53,000	21,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 4 ตุลาคม 2567)

(ต่อ)

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)		
	24101791-1	24101791-2	24101791-3
Phylum Rotifera			
Class Monogononta			
Order Ploima			
Family Brachionidae			
4. <i>Colurella obtusa</i>	12,000	11,000	11,0000
Family Notommatidae			
5. <i>Cephalodella gibba</i>	12,000	-	-
ชนิดแพลงก์ตอนสัตว์	4	3	4
ปริมาณแพลงก์ตอนสัตว์	73,000	75,000	54,000
ดัชนีความหลากหลายแพลงก์ตอนสัตว์	1.2348	0.8084	1.3396
ดัชนีความสม่ำเสมอแพลงก์ตอนสัตว์	0.8907	0.7358	0.9663

Sample Location :

1. สถานี 24101791-1 : เหนือจุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW1)
2. สถานี 24101791-2 : ใกล้จุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW2)
3. สถานี 24101791-3 : ใต้จุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW3)

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)



(นางสาวกนกวรรณ ขวาค่อน)

ผู้วิเคราะห์



(นายอลงกต อินทรชาติ)

หัวหน้าสถานีวิจัยประมงศรีราชา



สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ. ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : Glow IPP Co., Ltd.

Address : 42 Moo 8 CIE 8 Road, Bowin, Sriracha, Chonburi, Thailand, 20230

Project Location : Glow IPP

รายงานผลการวิเคราะห์สัตว์หน้าดิน

ตาราง ผลการวิเคราะห์สัตว์หน้าดิน (เก็บตัวอย่างวันที่ 4 ตุลาคม 2567)

สกุลสัตว์หน้าดิน	ปริมาณสัตว์หน้าดิน (ตัว/ตารางเมตร)		
	24101794-1	24101794-2	24101794-3
Phylum Arthropoda Class Insecta Order Diptera Family Chironomidae <i>Chironomus</i> sp. (หนอนแดง)	60	30	30
รวมจำนวนสกุลที่พบทั้งหมด	1	1	1
รวมปริมาณที่พบทั้งหมด	60	30	30
ค่าดัชนีความหลากหลาย	0.0000	0.0000	0.0000

Sample Location : 1. สถานี 24101794-1 : เหนือจุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW1)
2. สถานี 24101794-2 : ใกล้จุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW2)
3. สถานี 24101794-3 : ใต้จุดระบายน้ำทิ้งลงสู่ห้วยมะนาว (SW3)

Condition of Sample : contained in one plastic zip bag


.....

(นายอรรถวุฒิ กันทะวงศ์)

ผู้วิเคราะห์


.....

(นายอลงกต อินทรชาติ)

หัวหน้าสถานีวิจัยประมงศรีราชา

ภาคผนวก ค-7

ผลการตรวจวัดระดับเสียงในสถานประกอบการ



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101778

Date Received : Oct 29, 2024
Date Reported : Jan 11, 2025
Report Number: 3154637-1 Rev. No.1

Page 1 of 1

Sample Number 24101778-1
Parameter Noise (Leq 8 hrs.)
Location Working Area
Measurement Date Oct 29, 2024
Measurement by Satcha Phetsawaeng

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:23 AM - 09:23 AM	71.4	81.4	70.4
09:23 AM - 10:23 AM	71.2	74.5	70.3
10:23 AM - 11:23 AM	71.5	74.7	70.1
11:23 AM - 12:23 PM	71.5	75.2	70.0
12:23 PM - 01:23 PM	70.0	73.3	69.3
01:23 PM - 02:23 PM	70.1	72.0	69.4
02:23 PM - 03:23 PM	71.8	77.9	69.4
03:23 PM - 04:23 PM	70.0	71.6	69.4

Leq Average 8 hrs. (dB(A))

71.0

Lmax (dB(A))

81.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Note : This Analysis test report is reissued to supersede report No.3154637-1, Date Reported : Nov 02, 2024 due to revise sample information.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)

Approved by

Supot S

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101778

Date Received : Oct 29, 2024
Date Reported : Nov 02, 2024
Report Number: 3154638-1

Page 1 of 1

Sample Number 24101778-2
Parameter Noise (Leq 8 hrs.)
Location Control room
Measurement Date Oct 29, 2024
Measurement by Satcha Phetsawaeng

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:15 AM - 09:15 AM	60.4	69.4	59.1
09:15 AM - 10:15 AM	60.8	70.5	59.6
10:15 AM - 11:15 AM	60.9	76.2	59.7
11:15 AM - 12:15 PM	60.4	65.9	58.9
12:15 PM - 01:15 PM	61.1	78.5	58.9
01:15 PM - 02:15 PM	61.3	74.6	58.8
02:15 PM - 03:15 PM	59.3	69.6	58.6
03:15 PM - 04:15 PM	59.4	69.4	58.6

Leq Average 8 hrs. (dB(A))

60.5

Lmax (dB(A))

78.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

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Analysis / Test Report

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101778

Date Received : Oct 29, 2024
Date Reported : Nov 02, 2024
Report Number: 3154639-1

Page 1 of 1

Sample Number 24101778-3
Parameter Noise (Leq 8 hrs.)
Location Compressor area
Measurement Date Oct 29, 2024
Measurement by Satcha Phetsawaeng

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:12 AM - 09:12 AM	56.6	79.7	55.7
09:12 AM - 10:12 AM	56.3	70.1	55.6
10:12 AM - 11:12 AM	57.5	63.2	55.8
11:12 AM - 12:12 PM	56.0	66.0	55.3
12:12 PM - 01:12 PM	56.0	67.4	55.5
01:12 PM - 02:12 PM	56.0	62.8	55.4
02:12 PM - 03:12 PM	70.2	91.5	55.5
03:12 PM - 04:12 PM	56.1	66.9	55.4

Leq Average 8 hrs. (dB(A))

62.3

Lmax (dB(A))

91.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

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Chonticha Subongkoch
Scientist (3)

Approved by

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Supot Salamteh
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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101778

Date Received : Oct 29, 2024
Date Reported : Nov 02, 2024
Report Number: 3154640-1

Page 1 of 1

Sample Number 24101778-4
Parameter Noise (Leq 8 hrs.)
Location Generator area
Measurement Date Oct 29, 2024
Measurement by Satcha Phetsawaeng

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:20 AM - 09:20 AM	66.5	93.0	65.7
09:20 AM - 10:20 AM	66.0	68.6	65.5
10:20 AM - 11:20 AM	66.5	72.3	65.8
11:20 AM - 12:20 PM	66.3	68.6	65.9
12:20 PM - 01:20 PM	66.3	68.2	65.8
01:20 PM - 02:20 PM	66.2	76.3	65.7
02:20 PM - 03:20 PM	66.8	74.1	66.0
03:20 PM - 04:20 PM	66.3	68.1	65.9

Leq Average 8 hrs. (dB(A))

66.4

Lmax (dB(A))

93.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Analysis / Test Report

Client : Glow IPP Co., Ltd.
42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24101778

Date Received : Oct 29, 2024
Date Reported : Nov 02, 2024
Report Number: 3154641-1

Page 1 of 1

Sample Number 24101778-5
Parameter Noise (Leq 8 hrs.)
Location Pump area
Measurement Date Oct 29, 2024
Measurement by Satcha Phetsawaeng

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:11 AM - 09:11 AM	56.5	78.0	54.4
09:11 AM - 10:11 AM	56.0	71.8	54.0
10:11 AM - 11:11 AM	57.0	62.2	54.5
11:11 AM - 12:11 PM	55.7	61.4	53.9
12:11 PM - 01:11 PM	55.6	60.2	53.8
01:11 PM - 02:11 PM	55.8	61.4	53.9
02:11 PM - 03:11 PM	82.6	102.5	54.0
03:11 PM - 04:11 PM	55.9	61.0	54.1

Leq Average 8 hrs. (dB(A))

73.6

Lmax (dB(A))

102.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24129160

Date Received : Dec 06, 2024
Date Reported : Jan 11, 2025
Report Number: 3190973-1 Rev. No.1

Page 1 of 1

Sample Number 24129160-1
Parameter Noise (Leq 8 hrs.)
Location Working Area
Measurement Date Dec 04, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:15 PM - 03:15 PM	70.1	86.2	69.4
03:15 PM - 04:15 PM	69.8	74.1	69.3
04:15 PM - 05:15 PM	69.8	71.5	69.2
05:15 PM - 06:15 PM	70.8	74.7	69.4
06:15 PM - 07:15 PM	70.9	72.7	69.3
07:15 PM - 08:15 PM	71.1	73.0	69.4
08:15 PM - 09:15 PM	70.9	73.1	69.5
09:15 PM - 10:15 PM	70.6	72.1	69.6

Leq Average 8 hrs. (dB(A))

70.5

Lmax (dB(A))

86.2

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

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Note : This Analysis test report is reissued to supersede report No.3190973-1, Date Reported : Dec 12, 2024 due to revise sample information.

Technical Management

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42 Moo 8, CIE 8 Road, Bowin, Sriracha, Chonburi Thailand 20230
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24129160

Date Received : Dec 06, 2024

Date Reported : Dec 12, 2024

Report Number: 3190974-1

Page 1 of 1

Sample Number 24129160-2
Parameter Noise (Leq 8 hrs.)
Location Control room
Measurement Date Dec 04, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:26 PM - 03:26 PM	60.5	72.2	58.7
03:26 PM - 04:26 PM	60.4	71.5	58.8
04:26 PM - 05:26 PM	59.8	71.8	58.4
05:26 PM - 06:26 PM	60.4	83.7	58.4
06:26 PM - 07:26 PM	59.4	72.2	58.5
07:26 PM - 08:26 PM	59.7	67.8	58.5
08:26 PM - 09:26 PM	58.9	68.1	58.4
09:26 PM - 10:26 PM	58.7	67.5	58.3

Leq Average 8 hrs. (dB(A))

59.8

Lmax (dB(A))

83.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

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P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24129160

Date Received : Dec 06, 2024
Date Reported : Dec 12, 2024
Report Number: 3190975-1

Page 1 of 1

Sample Number 24129160-3
Parameter Noise (Leq 8 hrs.)
Location Compressor area
Measurement Date Dec 04, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:22 PM - 03:22 PM	60.9	76.4	56.0
03:22 PM - 04:22 PM	61.9	83.4	55.6
04:22 PM - 05:22 PM	56.4	63.3	55.7
05:22 PM - 06:22 PM	64.8	70.6	57.6
06:22 PM - 07:22 PM	56.4	60.5	55.6
07:22 PM - 08:22 PM	56.0	66.2	55.4
08:22 PM - 09:22 PM	56.0	62.2	55.6
09:22 PM - 10:22 PM	57.9	65.2	55.4

Leq Average 8 hrs. (dB(A))

60.0

Lmax (dB(A))

83.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

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P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24129160

Date Received : Dec 06, 2024
Date Reported : Dec 12, 2024
Report Number: 3190976-1

Page 1 of 1

Sample Number 24129160-4
Parameter Noise (Leq 8 hrs.)
Location Generator area
Measurement Date Dec 04, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:33 PM - 03:33 PM	66.8	82.0	63.3
03:33 PM - 04:33 PM	65.0	80.6	63.3
04:33 PM - 05:33 PM	64.0	65.6	63.5
05:33 PM - 06:33 PM	64.7	67.1	63.8
06:33 PM - 07:33 PM	64.0	66.2	63.5
07:33 PM - 08:33 PM	64.0	65.2	63.5
08:33 PM - 09:33 PM	64.0	65.1	63.5
09:33 PM - 10:33 PM	70.7	77.0	63.7

Leq Average 8 hrs. (dB(A))

66.1

Lmax (dB(A))

82.0

Standard (dB(A))

90

140

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P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow IPP

Lot ID: 24129160

Date Received : Dec 06, 2024
Date Reported : Dec 12, 2024
Report Number: 3190977-1

Page 1 of 1

Sample Number 24129160-5
Parameter Noise (Leq 8 hrs.)
Location Pump area
Measurement Date Dec 04, 2024
Measurement by Norranon Tathongkham

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:10 PM - 03:10 PM	62.0	94.3	56.6
03:10 PM - 04:10 PM	57.6	64.7	56.8
04:10 PM - 05:10 PM	57.5	62.5	56.7
05:10 PM - 06:10 PM	67.0	74.8	57.3
06:10 PM - 07:10 PM	59.3	67.2	56.7
07:10 PM - 08:10 PM	57.6	64.0	56.2
08:10 PM - 09:10 PM	57.5	62.9	56.2
09:10 PM - 10:10 PM	57.8	69.0	56.1

Leq Average 8 hrs. (dB(A))

61.1

Lmax (dB(A))

94.3

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

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