### **VENTURA REGIONAL SANITATION DISTRICT**

1001 PARTRIDGE DRIVE, SUITE 150 • VENTURA, CA 93003-0704



February 12, 2009

Mr. Keith Duvall Ventura County Air Pollution Control District 669 County Square Drive Ventura, CA 93003

PART 70 ANNUAL COMPLIANCE CERTIFICATION REPORT VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT PERMIT NO. 07340 – TOLAND ROAD LANDFILL

Enclosed is the Part 70 Compliance Certification Report for the Toland Road Landfill.

Please call Jason Siegert at 805-658-4617 if you have any questions.

SALLY COLEMAN - DIRECTOR OF OPERATIONS

VENTURA COUNTY

OPFEB 12 MAIN: 3

**Cover Sheet** 

Form TVPF45/07-21-03 Page 2 of 2

A copy of each compliance certification shall be submitted to EPA Region IX at the following address:

Mr. Gerardo Rios, Chief Permits Office (AIR-3) Office of Air Division EPA Region IX 75 Hawthorne Street San Francisco, CA 94105

#### Confidentiality

All information in a Part 70 permit compliance certification is public information. The Part 70 permit is also public information.

#### Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official:	Date:
ally Reman Title: Director of	2-10-09
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Time Period Covered by Compliance Certification:

01/01/08 (MM/DD/YY) to 12/31/08 (MM/DD/YY)

# PERIODIC MONITORING SUMMARY

This periodic monitoring summary is intended to aid the permittee in quickly identifying key monitoring, recordkeeping, and reporting requirements. It is not intended to be used as a "stand alone" monitoring guidance document that completely satisfies the requirements specifically applicable to this facility. The following tables are included in the periodic monitoring summary:

- Table 1.a Specific Applicable Requirements
  - Table 1.b Permit-Specific Conditions
- Table 1.c General Applicable Requirements
- Table 1.d General Requirements for Short-Term Activities

# 1a. Specific Applicable Requirements

The Specific Applicable Requirements Table includes a summary of the monitoring requirements, recordkeeping requirements, reporting requirements, and test methods associated with the attachments contained in Section No. 6 of this permit.

Comments			•
Test Methods C	•Static Test (ARB TP- 201.3b) •Dynamic Test (ARB TP- 201.4)	•NMOC-EPA Test Method 25, 25C or 18 •NOx – EPA Method 7 (flarc) •CO – EPA Method 10 (flarc) •Calorific value –ASTM Method D1826-77 •OZ – EPA Method 3A •Exhaust Flow – F Factor EPA Method 19 •Surface Methane – EPA Method 2	
Semi-annual Renorts	None	•Reports of excectances exceptances •Reports of new wells	•SSM plan reports
Recordkeeping	Records of maintenance     Records of vapor recovery system tests	Records of waste in place and annual waste acceptance rate Records of flare and turbine testing Records of flare temperature and landfill gas flow to the flare Records of existing wells, newly installed wells, and planned wells Records of methane concentration at the landfill surface Records of subestos-containing or nondegradable waste Records of exceedances	Records of SSM plan
Monitoring	Annual compliance certification     Annual static pressure testing     Quadrennial dynamic pressure testing     Log of maintenance on vapor recovery system	*Annual compliance certification     *Monitor flare and turbine gas flow rate and flare temperature     *Monitor wells and collection header (temperature, pressure, nitrogen, oxygen)     *Monitor methane concentration at the surface of the landfill     *Source test flare every 24 months (NIMOC, NOx, and CO)     *Source test micro-turbine every 24 months (NIMOC)	<ul> <li>Annual compliance certification</li> <li>Comply with 40 CFR Part 60, Subpart Cc</li> <li>Develop a startup, shutdown,</li> <li>malfunction (SSM) plan</li> </ul>
Applicable Rule or Requirement	Rule 70	Ruic 74, 17. i	40 CFR Part 63, Subpart AAAA
Attachment No./ Condition No.	70N3	74.17.1M5-07340	40CFK63AAAA

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# 1b. Permit-Specific Conditions

The Permit-Specific Conditions Table includes a summary of the monitoring requirements, recordkeeping requirements, reporting requirements, and test methods associated with the attachments contained in Section No. 7 of this permit.

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Comments		District	enforceable only		Not required based on District EPA emission factor
Test Methods	None	None	None	• ROC-EPA Test Method 25 or 18 •NOx – EPA Method 7 •Sulfur Compounds – EPA Test Method 6, 64, 6C, 8, 15, 16A, 16B, or SCAQMD Method 307- 94, as appropriate •Sulfur Compounds – EPA Test Method 6, 64, 6C, 8, 15, 16A, 16B, or SCAQMD Method 307- 94, as ammoniate	None
Semi-annual	None	None	None	None	None
Recordkeeping	<ul> <li>Monthly records of throughput and consumption</li> </ul>	<ul> <li>Solvent use exemption records</li> </ul>	•Landfill gas flow rate and heating value	•Records of flare temperature •Records of source tests	•None
Monitoring	<ul> <li>Annual compliance certification</li> <li>Monthly records of throughput and consumption</li> </ul>	*Annual compliance certification	•Annual compliance certification •Landfill gas flow rate and heating value	Annual compliance certification Flare temperature Testing every 2 years (ROC,NOx) Testing every 4 years (SOx)  Annual compliance certification Source test every 4 years  Modeling upon request	•Annual compliance certification
Applicable Rule or Requirement	Rulc 26 General Recordkeeping	Rule 29 Solvent Use	Rule 26 Annual Flare Combustion Limit	Kule 54 Rule 54	Aute 37.1
Attachment No./ Condition No.	PO7340PC1 - Condition No. 1	PO7340PC1 - Condition No. 2	PO7340PC2 - Condition No. 1	Condition No. 2  PO7340PC2 -  Condition No. 3	Condition No. 4

Section No. 1 Periodic Monitoring Summary 07340-151

1b. Permit-Specific Conditions (Continued)

ds Comments				st District enforceable only	st District enforceable only	thods	5- 6, 6A, 3, or 307-	
Test Methods	None	None	None	APCD approved test protocol	APCD approved test protocol	•NMOC - EPA Methods 18, 25, or 25C	•Sulfur Compounds - EPA Test Method 6, 6A, 6C, 8, 15, 16A, 16B, or SCAQMD Method 307-	94, as appropriate None
Semi-annual	None None	None	None	None	None	None	None	None
Recordkeeping	•None	•None	None	•Records of source tests	•Records of source tests	•Records of source tests	•Records of source tests	•Electrical power generated, landfill gas flow rate, and heating value
Monitoring	•Annual compliance certification	• Annual compliance certification	•Annual compliance certification	Source testing	•Source testing	•Annual compliance certification •Testing every 24 months (NMOC)	Annual compliance certification     Source test every 4 years     Modeling upon request	•Aunual compliance certification •Electrical power generated, landfill gas
Applicable Rule or Requirement	Rule 26 Flare Equipment Requirements	Rule 26 Flare Condensate Knockout Filter Reunirements	Rule 26 Collection Vessel Emission Requirements	Rule 51 Flare Dimensions and Exhaust Velocity	Rule 51 Toxics Testing and HRA Requirements	Kule /4.17.1 Micro-Turbine Emission Limits	Rule 54	Rule 74.17.1 Micro-Turbine Metering Requirement
Attachment No./ Condition No.	PO7340PC2 - Condition No. 5	PO7340PC2 - Condition No. 6	PO7340PC2 - Condition No. 7	PO7340PC2 - Condition No. 8	PO7340PC2 - Condition Nos. 9 and 10 PO7340PC7	Condition Nos. 1, 3, and 4	PO7340PC3 — Condition No. 2, 3, and 4	PO7340PC3 – Condition No. 5

# 1c. General Applicable Requirements

The General Applicable Requirements Table includes a summary of the monitoring requirements, recordkeeping requirements, reporting requirements, and test methods associated with the attachments contained in Section No. 8 of this permit.

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Соптепіз				-				Computation with raise 04	ensures compiliance with this		-						•Compliance based on District	EPA emission factor analysis															-
Test Methods	*Opacity - EPA Method 9						*Suffer Comments EDA Test	Marked & Co. 60 of 15 100	SCAOMD Method 307.94 as	appropriate			•SO <sub>2</sub> - BAAQMD Manual of	Procedures, Vol. VI, Section 1,	Ground Level Monitoring for H <sub>2</sub> S and	SO <sub>2</sub>	•PM - CARB Method 5		•SCAQMD Method 307-94 or ASTM D1072-90 or other alternatives per	Rule 64.E.1	•ASTM Method D4294-83 or D2622-	87			•ROC content-EPA Test Method 24	• Identity of solvent components.	ASTM E168-67. ASTM E169-87. or	ASTM E260-85	True Vapor pressure or composite	partial pressure -ASTM D2879-86	•Initial boiling point-ASTM 1078-78	or published source	<ul> <li>Spray gun active/passive solvent losses-SCAOMD Method (10-3-89)</li> </ul>
Semi-annual Reports	None			•		-	None					-	None				None		None		None		-		None								
Recordkeeping	All occurrences of	visible emissions for	periods>Jmin in any	Annual formal survey	of all emissions units		None						•Representative fuel	analysis or exhaust	analysis and	compliance	None		<ul> <li>Quarterly fuel sulfur analyses</li> </ul>		<ul><li>Fuel supplier's</li></ul>	certification, or fuel	test per each delivery		•Records of current	solvent information		-					
Monitoring	-Routine surveillance	Visual inspections	•Annual compliance	survey	<ul> <li>Opacity readings upon request</li> </ul>	•Notification required for	Annual compliance certification	Follow monitoring requirements	under Rule 64	•Upon request, source test for	sulfur compounds at point of	discharge	<ul> <li>Annual compliance certification</li> </ul>	Determine ground or sea level	concentrations of SO2, upon	request	<ul> <li>Annual compliance certification</li> </ul>		<ul> <li>Annual compliance certification</li> <li>Quarterly micro-turbine fuel</li> </ul>	sulfur analysis	• Annual compliance certification	Fuel supplier's certification, or	fuel test per each delivery	(submit with annual compliance certification)	•Annual compliance certification	• Maintain current solvent	information	•Routine surveillance of solvent	cleaning activities	*Upon request, solvent testing	•Measurement of freeboard	height and drain hole area for	cold cleaners (as applicable)
Applicable Rule or Requirement	Rule 50						Rule 54.B.1				-		Rule 54.B.2	-			Rule 57.1	1.0.52.0.0	Kule 04.5.1		Rule 64.B.2				Rule 74.6								
Attachment No./ Condition No.	20						54.B.1						54.B.2		****	-	57.1	1 0 77	04.b.1		64.8.2			ż	74.6								

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General Applicable Requirements (continued)

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	Comments	•Rule only applies to future installation of large water heaters and small boilers	•Rule only applies to future installation of natural gas-fired, fan-tvoe furnaces
	Test Methods	None	None
	Semi-annual Reports   Test Methods	None	None
	Kecordkeeping	Records of current information of large water heaters and small hollers	•Records of current furnace information
N C	Monitoring	Annual compliance certification     Maintain identification records of large water heaters and small boilers	Annual compliance certification     Maintain furnace identification     records
Ameliantia D. L. o.	Applicable Kute of Requirement	Rule 74.11.1	Rule 74.22
Attachment No.	Condition No.	74.11.1	74.22

# 1d. General Requirements for Short-Term Activities

The General Requirements for Short-term Activities Table includes a summary of the monitoring requirements, recordkeeping requirements, reporting requirements, and test methods associated with the attachments contained in Section No. 9 of this permit.

	·	<del></del>				
Comments						
Test Methods	Visible emission evaluation- Section 92400 of CCR	•Rule 74.2.G	•ASTM D402	None	•Vapor concentration- EPA Method 21 •Wt. % of contaminant in soil-EPA Method 8015B	•See 40 CFR Part 61.145 for test methods
Semi-annual Reports	None	None	None	None	Nane	•See 40 CFR Part 61.145 for notification procedures
Recordkeeping	Abrasive blasting records	•Maintain VOC records of coatings used	•Records of oil analyses	Nane	Weekly measurements of soil decontamination operation vapor concentration  Date and quantity of soil aerated	See 40 CFR Part     61.145 for     recordkeeping     procedures
Monitoring	Annual compliance certification     Routine surveillance and visual inspections of abrasive blusting operation     Abrusive blasting records	Annual compliance certification     Routine surveillance     Maintain VOC records of     coatings used	Annual compliance certification     Test ROC content of oil sample     being proposed for usage	Annual compilance certification     Visual inspection to ensure     proper vapor control during     roofing kettle operation	*Annual compliance certification     *Weekly measurements of in-situ     soil bioventing or     bioremediation     *Weekly measurements of soil     aeration     *Date and quantity of soil aerated     *Routine surveillance     *Notification required for excayation	Annual compliance certification     See 40 CFR Part 61.145 for     inspection procedures
Applicable Rule or Requirement	Rule 74. ]	Rule 74.2	Rule 74.4.D	Rule 74.28.	Rulc 74.29	40 CFR Part 61, Subpart M
Attachment No./ Condition No.	74.1	74.2	74.4.D	74.28	74.29	40CFR.61.M

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Section No. 1 Periodic Monitoring Summary 07340-151

#### Applicable Requirement or Part 70 Permit Condition Attachment

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#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 70 – Storage and Transfer of Gasoline.
Condition No. 70N3	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Annual visual inspection and initial commissioning testing was performed. 5,855 gallons of gasoline was dispensed in 2008.

- 2. XYes \( \subseteq No \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. Description During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. □Yes × No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

### Ventura County Air Pollution Control District

#### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 74.17.1 – Municipal Solid Waste Landfills.
Condition No. 74.17.1N5-07340	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Gas at wellhead, Temperature, Gas Pressure, Oxygen Concentration- Monthly

Flare Testing and Turbine Testing - Bi-annual

Flare Temperature and Flow – Continuous

Micro-Turbine gas flow rate is continuously recorded by continuously recording the micro-turbine power output and back calculating the gas flow rate based on a heat rate of 14,500 BTU (LHV)/KW-hr. (40CFR60.756(b)(2))

Existing wells, newly installed wells, planned wells – as needed

Methane testing at well surface – Quarterly – Portable Organic Vapor Analyzer

Perimeter gas probes- Monthly - portable combustible gas detector

System bypass- not installed

No periods when gas system was not operating in excess of five days.

Report of installation and location of new wells or collection system expansion - 5 new wells were installed in 2008. (See Semi-Annual Reports for 01/01/08 - 6/30/08 and 7/1/08-12/31/08 at APCD)

- 2. X Yes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the \( \text{most} \) recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

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5. □Yes × No

During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

6. □Yes × No

During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?

- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

2008 Flare Throughput

323,968		648,133,457	Totals	<b>-1</b>		
33,101	46.94%	66,201,120	31	2,135,520	1,483	Dec-09
30,893	49.85%	61,785,818	31	1,993,091	1,384	Nov-09
27,537	51.81%	55,074,600	31	1,776,600	1,234	Oct-09
25,222	21.08%	50,443,200	30	1,681,440	1,168	Sep-09
25,378	21.50%	50,755,680	31	1,637,280	1,137	Aug-09
24,188	55.25%	48,575,188	31	1,566,942	1,088	90-Inf
24,190	44.43%	48,380,400	30	1,612,680	1,120	Jun-08
27,886	51.01%	55,772,100	31	1,799,100	1,249	May-08
26,451	45.17%	52,901,486	30	1,763,383	1,225	Apr-08
29,724	46.21%	59,448,305	31	1,917,687	1,332	Mar-08
25,416	49.85%	50,832,360	29	1,752,840	1,217	Feb-08
23,982	51.79%	47,963,200	31	1,547,200	1,074	Jan-08
MMBTUs	avg ch4	total scf	days	scf/day	avg scfm	month

# 2008 Toland Micro-Turbine Summary

								-	
	<b>Turbine Hours</b>	IIS		Power		LFG			
-	Start	Stop	Difference	Avg	Total	CH4 Avg	Flow Avg	Total	
2008	(hrs)	(hrs)	(hrs)	(Kw)	(kWh)	(%)	(scfm)	(cf LFG)	(MMBtu)
Jan-08	17,498	17,498	0	0	0	51.8%	0.0	0	0.00
Feb-08	17,498	17,498	0	0	0	49.9%	0.0	0	00.0
Mar-08	17,498	17,981	483	65	31,395	46.2%	6.09	1,765,050	455.23
Apr-08	17,981	18,701	720	09	43,200	45.2%	43.3	1,869,103	626.40
May-08	18,701	19,440	739	09	44,340	51.0%	47.6	2,110,759	642.93
Jun-08	19,440	20,152	712	55	55 39,160	44.4%	46.9	2,005,618	567.82
90-Inf	20,152	20,770	618	22	55 33,990	55.3%	67.3	2,494,044	492.86
Aug-08	20,770	20,938	168	22	9,240	51.5%	230.6	2,324,765	133.98
Sep-08	20,938	21,314	376	09	22,560	51.1%	93.7	2,113,655	327.12
Oct-08	21,314	22,043	729	09	43,740	51.8%	49.0	2,143,862	634.23
Nov-08	22,043	22,570	527	92	34,255	49.9%	60.2	1,904,085	496.70
Dec-08	22,570	23,224	654	65	42,510	46.9%	45.7	1,792,934	616.40
		Total hrs:	5,726					20,523,875	4,993.66
		Hrs/Yr:	8760						
		Uptime:	65%						

Applicable Requirement or Part 70 Permit Condition Attachment

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#### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number:	Description: 40CFR Part 63, Subpart AAAA.
Condition No. 40CFR63AAAA	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

A Start-up, Shutdown, Malfunction Plan has been developed and was implemented during 2008. Compliance with 40CFR Part 60, Subpart Cc was maintained during 2008. (See Semi-Annual SSMP Reports 1/1/08-6/30/08 and 7/1/08-12/31/08 at APCD)

- 2. XYes \( \subseteq No \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. □Yes X No

  During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

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- 6. ☐ Yes X No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: The annual amount of landfill gas combusted in the flare shall
PO7340PC1 – Condition No. 1 Rule 26	not exceed 450,000 million BTUs (MMBTU) per year.

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The annual amount of landfill gas combusted in the flare for the year 2008 was 648,133,457 scf, or 323,968 MMBTU. The Micro-Turbine consumed 4,994 MMBTU in 2008. This totals 328,962 MMBTU consumed at the landfill for 2008. This is less than the limit of 450,000 MMBTU in the permit. See attached flow sheets.

5,855 gallons of gasoline was dispensed at the Toland Landfill during 2008. The permit limit is 12,000 gallons of gasoline.

- 2. XYes \( \subseteq No \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. □Yes × No

  During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. □Yes X No

  During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. ☐ Yes X No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

2008 Flare Throughput

MMBTUs	23,982	25,416	29,724	26,451	27,886	24,190	24,188	25,378	25,222	27,537	30,893	33,101	323,968
avg ch4	51.79%	49.85%	46.21%	45.17%	51.01%	44.43%	22.25%	21.50%	51.08%	51.81%	49.85%	46.94%	
total scf	47,963,200	50,832,360	59,448,305	52,901,486	55,772,100	48,380,400	48,575,188	50,755,680	50,443,200	55,074,600	61,785,818	66,201,120	648,133,457
days	31	29	31	30	31	30	31	31	30	31	31	31	Totals
scf/day	1,547,200	1,752,840	1,917,687	1,763,383	1,799,100	1,612,680	1,566,942	1,637,280	1,681,440	1,776,600	1,993,091	2,135,520	
avg scfm	1,074	1,217	1,332	1,225	1,249	1,120	1,088	1,137	1,168	1,234	1,384	1,483	
month	Jan-08	Feb-08	Mar-08	Apr-08	May-08	90-unf	60-Inf	Ang-09	Sep-09	Oct-09	Nov-09	Dec-09	

# 2008 Toland Micro-Turbine Summary

	<b>Turbine Hours</b>	ည		Power		LFG			
	Start	Stop	Difference	Avg	Total	CH4 Avg	Flow Avg	Total	
2008	(hrs)	(hrs)	(hrs)	(Kw)	(kWh)	(%)	(scfm)	(cf LFG)	(MMBtu)
Jan-08	17,498	17,498	0	0	0	51.8%	0.0	0	00.0
Feb-08	17,498	17,498	0	0	0	49.9%	0.0	0	00.0
Mar-08	17,498	17,981	483	65	31,395	46.2%	6.09	1,765,050	455.23
Apr-08	17,981	18,701	720	09	43,200	45.2%	43.3	1,869,103	626.40
May-08	18,701	19,440	739	09	44,340	51.0%	47.6	2,110,759	642.93
90-unf	19,440	20,152	712	22	55 39,160	44.4%	46.9	2,005,618	567.82
90-Inf	20,152	20,770	618	22	55 33,990	22.3%	67.3	2,494,044	492.86
Aug-08	20,770	20,938	168	22	9,240	51.5%	230.6	2,324,765	133.98
Sep-08	20,938	21,314	376	09	22,560	51.1%	93.7	2,113,655	327.12
Oct-08	21,314	22,043	729	09	43,740	51.8%	49.0	2,143,862	634.23
Nov-08	22,043	22,570	527	65	34,255	49.9%	60.2	1,904,085	496.70
Dec-08	22,570	23,224	654	65	42,510	46.9%	45.7	1,792,934	616.40
		Total hrs:	5,726					20,523,875	4,993.66
		Hrs/Yr:	8760						
		Uptime:	65%						

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Solvent Record keeping.
PO7340PC1 – Condition No. 2 Rule 29	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Solvents are used in small quantities for maintenance of the facility and its equipment. All of the solvents are used in 16-ounce disposable aerosol cans; approximately 60 lbs of solvents were used during 2008. The solvents consist of brake cleaner, starting fluid, electric motor cleaner, penetrating oil, and touch up paint. Additionally 10 gallons of Voltx safety solvent is used and recycled every quarter.

- 2. XYes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. □Yes × No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

## Ventura County Air Pollution Control District

#### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 26 – Annual Flare Combustion Limits.
PO7340PC2 – Condition No. 1 Rule 26	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The annual amount of landfill gas combusted in the flare for the year 2008 was 648,133,457 scf, for a total of 323,968 MMBTU. This is less than the limit of 450,000 MMBTU in the permit. See attached flow sheet.

- 2. XYes \(\sumbox{\text{No}}\) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. □Yes × No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

2008 Flare Throughput

323,968		648,133,457	Totals			
33,101	46.94%	66,201,120	31	2,135,520	1,483	Dec-09
30,893	49.85%	61,785,818	31	1,993,091	1,384	60-voN
27,537	51.81%	55,074,600	31	1,776,600	1,234	Oct-09
25,222	21.08%	50,443,200	30	1,681,440	1,168	Sep-09
25,378	21.50%	50,755,680	31	1,637,280	1,137	Ang-09
24,188	22.25%	48,575,188	31	1,566,942	1,088	90-Inf
24,190	44.43%	48,380,400	30	1,612,680	1,120	Jun-08
27,886	21.01%	55,772,100	31	1,799,100	1,249	May-08
26,451	45.17%	52,901,486	30	1,763,383	1,225	Apr-08
29,724	46.21%	59,448,305	31	1,917,687	1,332	Mar-08
25,416	49.85%	50,832,360	29	1,752,840	1,217	Feb-08
23,982	51.79%	47,963,200	31	1,547,200	1,074	Jan-08
MMBTUs	avg ch4	total scf	days	scf/day	avg scfm	month

#### COM ENTICE CERTIFICATION LEMMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 26 – Flare BACT Limits.
PO7340PC2 – Condition No. 2	
Rule 26	;

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

- 1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.
  - a. The landfill gas flare is maintained at a minimum temperature of 1500 degrees F as indicated by the flare temperature recorder. See attached source test, June 26, 2007. The flare temperature is monitored at a thermocouple located within the flare stack, which assures that the temperature will be maintained at 1500 deg. F. The source test monitors the flare temperature at the top of the stack, after the gas has traveled up the stack and partially cooled, (temperatures will always be cooler up the stack after the combustion zone) and will always be cooler than the control thermocouple. The set temperature for the system is 1650 deg. F, which used the thermocouple in the combustion zone, and the system maintains temperatures within 10 degrees of this. The toxics and source test results confirm the system design and operating temperatures reach the desired destruction efficiency and criteria pollutant goals.
  - b. ROC Emissions of, as defined in Rule 2, do not exceed 1.00 pounds per hour. See attached source test, 6/26/07.
  - c. Emissions of oxides of nitrogen (NOx measured as NO2) from the landfill gas flare shall not exceed 5.15 pounds per hour. See attached source test, 6/26/07.
  - d. Emissions of oxides of sulfur (SOx) from the landfill gas flare shall not exceed 1.72 pounds per hour and 0.02 pounds per million BTU's. See attached source test, 6/26/07.
- 2. XYes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - ➤ Continuous All monitoring measurements show compliance with the Part 70 permit condition
  - ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 4. □Yes × No
- During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. □Yes × No
- During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
- 6. Description During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 54, Sulfur Compounds.
PO7340PC2 Condition No. 3	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

From the source test conducted June 26, 2007 the SO2 is 0.50 lb/hr at exhaust, significantly below Rule 54.B.1 requirement of 300 ppm. The inlet concentration of Total Reduced Sulfur was 91.07 ppm.

- 2. XYes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

## Quantifiable Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF47/12-21-98

Emission Unit Description:				Pollutant:
85.8 MMBTU/Hr LFG Specialtie	es Inc. enclosed landfill gas fl	are.		NMOC, NOx,
				SOx and CO.
Measured Emission Rate:	Limited Emission Rate:		Specific Source Test or Monitoring	
TGNMO, $1b/hr$ (as CH4) = 0.06	TGNMO, lb/hr (as CH4) =	1.00	Record Citation: PO7340PC2, Condi	tion 2
NOx, $lb/hr$ (as $NO2$ ) = 0.80	NOx, $lb/hr$ (as NO2) = 5.15	5	•	
SOx, $lb/hr$ (as $SO2$ ) = 0.50	SOx, $lb/hr$ (as $SO2$ ) = 1.72		Test Date:	
CO, 1b/hr = 0.003	CO, lb/hr = 17.16		June 26, 2007	
Emission Unit Description:				Pollutant:
70 Kilowatt Ingersoll-Rand Powe	erWorks micro-turbine.			NMOC
Measured Emission Rate:	Limited Emission Rate:		Specific Source Test or Monitoring	
TGNMO, ppm @ 3% O2 (as	TGNMO, ppm @ 3% O2 (a	0.0	Record Citation: PO7340PC3, Condi	tion 2 3 & 4
hexane) = $4.26$	hexane) = $20$	as		uon 2, 3, & 4
Destruction Eff.% = 98.28	Destruction Eff.% = 98+		Test Date:	
SOx, $lb/hr$ (as SO2) = 0.04	SOx, $1b/hr$ (as SO2) = 0.25		July 31, 2008	
50x, 10/m (as 502) - 0.04	50x, 10/11 (as 502) = 0.25		July 31, 2000	
Emining Heit Description				ID 11
Emission Unit Description:				Pollutant:
Manus d Emission Date	Timited Environment	Ia .	C C T + M · · ·	
Measured Emission Rate:	Limited Emission Rate:		fic Source Test or Monitoring	
		Reco	rd Citation:	
		J		
· · · · · · · · · · · · · · · · · · ·		Test I	Date:	
Emission Unit Description:				Pollutant:
Measured Emission Rate:	Limited Emission Rate:	Speci	fic Source Test or Monitoring	
		Reco	rd Citation:	
		1.		
		Test I	Date:	
		_ <b>_</b>		
Emission Unit Description:			·	Pollutant:
Zimssion omi Dosonphon.				1 Onutuire.
•				·
Measured Emission Rate:	Limited Emission Rate:	Speci	fic Source Test or Monitoring	
			rd Citation:	
		Test I	Date:	
		1		

#### TABLE 5-1 SUMMARY OF RESULTS 12 PERMIT CONDITIONS VRSD Toland Flore June 26, 2007

PARAMETER	INLET	EXHAUST	PERAIIT LIMIT
D <sub>3</sub> , %	2.18	14,74	
CO <sub>2</sub> , %	36.43	5.56	
N <sub>2</sub> %	9.89	3.30 79.70	
₁, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9.8 <del>9</del> 4.87		
		7.33	
Now Rale, wselm	576.3	10,110	
Flore Rate, decim	548.2	9,827	inlet 1,667
Temperature, *F (measured at sample ports)	119	1,130	1 4
Temperature, *F (measured at monitoring the		1,651	>1,400
Btu/sef .	<b>502.0</b>		
MMD(u/iir	17.36		
NOx:			
ppm		11.5	
ppm@3%O <sub>2</sub>		33.5	-
lb/hr (ns NO <sub>2</sub> )		0.80	5.15
lh/day (as NO <sub>2</sub> )		19,2	
Ib/MMBtu (as NO <sub>2</sub> )		0.046	0.05
Ib/MINICF (na NO,)		24.28	-
CO:			
ppm		0.1	
ppm @ 3% O <sub>2</sub>		0.2	
lb/hr		0.003	17.16
lb/day		80.0	17.70
lb/MA1Bip		0.0002	0.2
Ib/MMCF		0.10	9.2
CO: (defaulted to 20% of analyzer range)			
ppm		20	
ppm @ 3% O,		58.12	
lb/or		0.85	17.16
lb/day			17.10
b/MMDin		20.50	
io,vru n in		0.05	0.2
Hydrocarbons	100 000		
Čli, ppm	483,000	< 1.00	
TGNNIO, ppm (ns CH <sub>s</sub> )	6,193	2.33	
TGNAIO, ppm @3% O, (as methane)		6.77	
TCNMO, Mbr (as CH <sub>4</sub> )	8.4	0.06	1.00
TGNMO, IMMM Biu (as CII.)	-	0.003	•
TGNMO, Ibitay (as Cli <sub>4</sub> )	202.3	1.42	
TGNMO, ppm (as bexane)		0.39	
TGNMO, ppm @ 3% O1 (as bezone)		1.20	<20 NSPS
TGNMO, lb/hr (as bezane)		0.05	
Destruction Eff. %		99.31	>98%
h/aiaicf		1.61	
Total Sulfur Compounds,			
Total Reduced Sulfur Inlet, ppm	91.07		
SO2 Exhaust, lb/hr (as SO2)		0.50	
SOz Exhaust, ib/day(as SO <sub>2</sub> )		11.90	
SOx Exhausi, lb/hihiBin(as SO <sub>2</sub> )		0.029	
lb/hihicf		15.08	
		12,05	

The results in this table are the averages of all measurements.

TABLE 5-2 GENERAL RESULTS VRSD Toland Flare
June 26, 2007

•				INL	-				-				BLUS			
		First		Second		Third				First		Second		Third		
Parameter		Run		Run		Rua		Average	<u> </u>	Run		Ruo		Run		Average
O <sub>10</sub> %		222		2.38		1.93		218		15.67		14.71		13.84		14,74
CO <sub>2</sub> %		36.5	_	36.0		36.8		36.4		4.73		5.59		6.36		5.56
N <sub>2</sub> %		10.4	•	10.1		9.2		9.9		79.6		79.7		79.8		79.7
H <sub>2</sub> Q, %		4.2		4.9		5.5		4.9		6.83		7.04		8.10		7.33
Flow Rate, wscfm		567.6		586.0		575.2		576.3		10,469		9,169		10,694		10,110
Flow Rate, distin		543.8		557,3		543.6		54B		11,205		9,754		B,522		9,827
Temperature, F		107		120		130		119		1,102		1,100		1,189		1,130
Binkef		503		498		202		502		,,,,,,,		.,		14100		-,
b[A]Btw/lie		17.11		17.51		17.45		17.36								
NOn																
ppm										9.92		11.58		13.07		11.52
ppm @ 3% O <sub>2</sub>								•		34,0		33.5		33.1		33,5
fb/ar (as NO <sub>2</sub> )	•									0.79		0.81		0.80		0.80
ib/Aini Biu (as NO <sub>2</sub> )										0.046		0.046		0,016		0.046
CO:																
ppm								•		0.16		0.03		0.01		0.07
DRM @ 3% O2										0.56		0.09		0.02		0.22
lbbr									•	0.008		0.001	<	0.001	4	0.003
Ib/A1A1 Bru									•	0.001	<	0.001	<	0.001	<	100,0
Hydrocarbonse		·														
Clie ppm		483,000		479,000		487,000		483,000	•	: 1	<	1	<	1.	<	1
Ethane, ppm		3.06		3.53		3.30		3.30	•	: 1	<	1	<	1	<	t
TGNMO, ppm (as CII <sub>4</sub> )		6,440		6,120		6,020		6,193		1.11		2.42		1.26		2.33
TGNMO, lb/far (ms CHJ)		8.70		8,47		8.13		8,43		0,09		0,06		0.03		0.06
TGNAIO, ppm (as beanne)		1,073,3		1,020.0		1,003.3		1,032.2		0.55		0.40		0.21		0.39
TGNMO, pam @3% O, (as became)		1.028.5		985.9		946.7		987.0		1.89		1.17		0.53		1.20
TGNMO, lb/hr (as hexane)		7.79		7.59		7.28		7.55		80,0		0.05		0.02		0,05
Destruction Eff. %										98.94		9931		99.68		99.31
Salfur Compounds:		79.1		83.2		82.8		81.37								
1125, ppm Carbonyl Sulfide, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Alcibyl Mercanias, ppm	•	2.62	•	2.85	•	2.92		1.B								
Ethyl Mercapias, ppm		0.2	<	0.2	<	N.	3	0.2								
Distribut Suilide, pres	•	5.86	-	651	-	6.60	-	6.33								
Carbon Disultide, ppm	<	0.2	<	0.2	<	0,30	ė	0.2								
hoppy merceptan, ppm		0.54	_	0.65	•	0.58	~	0.6								
n-propy's mercaptan, pilm	€	0.2	<	0.2	<	0.2	•	0.2								
Dimethyl Disulfulo,ppm	ě	0.2	⋖.	6.2	4	0.2	4	0.2								
Total Spilar Compounds,	-						-	<del></del>								
Tetal Reduced Sulfur Inlet, ppm SOz Exhaust, IMar (as SO <sub>2</sub> ) <sup>11</sup>		88.l		92.2		929		91.1		0,476		0.510		0.502		0.496

The exhaust volume flow values are based on EPA Method 19.

# TABLE 5-1 SUMMARY OF RESULTS vs PERMIT CONDITIONS VRSD Toland

Finre June 26, 2007

CO <sub>31</sub> % N <sub>12</sub> % H <sub>1</sub> 0, % Flow Raie, wselm Flow Raie, dselm Temperature, °F (measured at sample parts) Temperature, °F (measured at monitoring thermocou	2.18 36.43 9.89 4.87 576.3 548.2 119 ple) 502.0	14.74 5.56 79.70 7.33 10,110 9,827 1,130 1,651  11.5 33.5 0.80 19.2 0.046 24.28  0.1 0.2 0.003 0.08 0.0002 0.10	inlet 1,667 >1,400  5.15 0.05
CO:, % N:, % H:0, % H:0, % Flow Rate, with Flow Rate, distin Temperature, °F (measured at sample ports) Temperature, °F (measured at monitoring thermocou Bitu/sef AlMi Ditu/itr  NO2: ppm ppm @ 3% O: lb/hr (as NO.) lb/hi (as NO.) lb/hiMBtu (as NO.) lb/hiMCF (as NO.)  CO: ppm ppm @ 3% O: lb/hiMBtu lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm @ 3% O: lb/hr lb/day lb/hr lb/day lb/hr lb/day	96,43 9,89 4,87 576,3 548,2 119 ple) 502,0	5.56 79.70 7.33 10,110 9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	>1,400 5.15 0.05
N <sub>1</sub> , % H <sub>1</sub> 0, % Flow Rate, wrefm Flow Rate, drefm Temperature, °F (measured at sample parts) Temperature, °F (measured at monitoring thermocou Biu/sef Alhi Biu/sir NOz: ppm 93% O <sub>1</sub> lb/hr (as NO <sub>2</sub> ) lb/hr (as NO <sub>2</sub> ) lb/hi (as NO <sub>2</sub> ) CO: ppm ppm 93% O <sub>1</sub> lb/lir lb/day lb/hin Biu lb/MMCF CO: (defaulted to 20% of analyzer range) ppm 93% O <sub>2</sub> lb/hr lb/day lb/hr lb/day lb/hr lb/day lb/hr lb/day lb/hin Biu lb/hin Biu lb/hin Biu	9,89 4,87 576.3 548.2 119 ple) 502.0	79.70 7.33 10,110 9,827 1,130 1,651  11.5 33.5 0.80 19.2 0.046 24.28  0.1 0.2 0.003 0.08 0.0002	>1,400 5.15 0.05
H <sub>1</sub> 0, % Flow Rate, wsefm Flow Rate, descin Temperature, °F (measured at sample ports) Temperature, °F (measured at monitoring thermocou Bid/sef Alki Did/ilr  NO2: ppm ppm @ 3% O: lb/hr (as NO2) lb/hs (as NO2) lb/hiMBtu (as NO2) lb/hiMCF (as NO2)  CO: ppm ppm @ 3% O: lb/hr lb/hiMBtu lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm @ 3% O: lb/hr lb/hiMBtu lb/hiMBtu	4.87 576.3 548.2 119 ple) 502.0	7.33 10,110 9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	>1,400 5.15 0.05
Flow Rate, wsefm Flow Rate, descin Temperature, °F (measured at sample ports) Temperature, °F (measured at monitoring thermocou Bid/sef Alki Did/ilr  NO2: ppm ppm @ 3% O2 lb/hr (as NO2) lb/hiMBtu (as NO2) lb/hiMBtu (as NO2) lb/hiMCF (as NO2)  CO: ppm ppm @ 3% O2 lb/hr lb/hiMBtu lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm @ 3% O2 lb/hr	576.3 548.2 119 ple) 502.0	10,110 9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08 0.0002	>1,400 5.15 0.05
Flow Rate, discim Temperature, °F (measured at sample parts) Temperature, °F (measured at monitoring thermocou Biu/scf Minibiu/itr  NOz: ppm ppm@3% O; lb/br (as NO <sub>2</sub> ) lb/hr (as NO <sub>2</sub> ) lb/hill (as NO <sub>2</sub> )  CO: ppm ppm@3% O; lb/hr lb/day lb/hill biu lb/mMCF  CO: (defaulted to 20% of analyzer range) ppm ppm@3% O; lb/hr lb/hill biu	548.2 119 ple) 502.0	9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	>1,400 5.15 0.05
Temperature, °F (measured at sample ports) Temperature, °F (measured at monitoring thermocou Bin/sef MM Bin/sir  NOz: ppm ppm @ 3% O; lb/hr (as NO <sub>2</sub> ) ll/day (as NO <sub>2</sub> ) ll/MM CF (as NO <sub>2</sub> ) lb/MM CF (as NO <sub>2</sub> ) lb/hr lb/hr lb/hr CO: ppm @ 3% O; lb/hr lb/hM CF  CO: (defaulted to 20% of analyzer range) ppm @ 3% O; lb/hr lb/day lb/hr b/hM CF	119 ple) 502.0	1,130 1,651 11.5 33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	>1,400 5.15 0.05
Temperature, °F (measured of monitoring thermocous Bin/sef MMissist NOz: ppm 93% O; lb/hr (as NO <sub>2</sub> ) ll/day (as NO <sub>2</sub> ) ll/Missist (as NO <sub>2</sub> ) lb/Missist (as NO <sub>2</sub> ) lb/hr lb/hr lb/day lb/Missist (as NO <sub>2</sub> ) lb/hr lb/day lb/Missist (as NO <sub>2</sub> ) lb/hr lb/day lb/hr lb/day lb/hr lb/day lb/hr	ple) 502.0	1;651 11.5 33.5 0.80 19.2 0.046 24.28  0.1 0.2 0.003 0.08 0.0002	5.15 0.05 17.16
Bin/sef MNi Bin/ir  NOz: ppm 3% O; lb/hr (ns NO2) lb/hr (ns NO2) lb/hiMBin (ns NO2) lb/hiMCF (ns NO2)  CO: ppm ppm @ 3% O; lb/hr lb/hr lb/hr lb/hr lb/hr lb/hr lb/hr lb/hr lb/hr ppm @ 3% O; lb/hr	502.0	11.5 33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	5.15 0.05 17.16
NO1: ppm 3% O1 lb/hr (ns NO2) lb/hr (ns NO2) lb/hil (ns NO2) lb/hil (ns NO2) lb/hil (ns NO2)  CO: ppm ppm @ 3% O1 lb/lir lb/lir lb/lir lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm @ 3% O2 lb/hr lb/hr lb/hr lb/hr lb/hr lb/day lb/hr		33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	0.05
NOx: ppm @ 3% O; lb/hr (as NO <sub>2</sub> ) lli/day (as NO <sub>2</sub> ) lli/day (as NO <sub>2</sub> ) lb/hiMBtu (as NO <sub>2</sub> ) lb/himCF (as NO <sub>2</sub> )  CO: ppm ppm @ 3% O; lb/hr lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O; lb/hr lb/hr lb/hr lb/day lb/hr	17.36	33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	0.05
ppm g 3% O; lb/hr (ns NO;) lb/day (ns NO;) lb/AiMBtu (ns NO;) lb/MiNCF (ns NO;)  CO: ppm ppm g 3% O; lb/hr lb/MiNBtu		33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	0.05
ppm@3%O; lb/hr (ns NO;) lb/hr (ns NO;) lb/hiMBtu (ns NO;) lb/hiMBtu (ns NO;) lb/hiMCF (ns NO;)  CO: ppm ppm@3%O; lb/hr lb/day lb/hiMBtu lb/MMCF  CO: (defaulted to 20% of nonlyzer range) ppm ppm@3%O; lb/hr lb/day lb/hiMBtu		33.5 0.80 19.2 0.046 24.28 0.1 0.2 0.003 0.08	0.05
lb/hr (as NO <sub>2</sub> ) lb/hs (as NO <sub>2</sub> )  CO: ppm ppm @ 3% O <sub>2</sub> lb/hr lb/day lb/hs MB to lb/mMCF  CO: {defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>2</sub> lb/hr lb/day lb/hs MB to		0.80 19,2 0.046 24.28 0.1 0.2 0.003 0.08	0.05 17.16
Ill/day (as NO <sub>2</sub> ) Ib/MMBtu (as NO <sub>2</sub> ) Ib/MMCF (as NO <sub>2</sub> ) CO: ppm ppm @ 3% O <sub>2</sub> Ib/hr Ib/day Ib/MMCF CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>2</sub> Ib/hr Ib/day Ib/hr		19,2 0.046 24.28 0.1 0.2 0.003 0.08 0.0002	0.05
Ill/day (as NO <sub>2</sub> ) Ib/MMBtu (as NO <sub>2</sub> ) Ib/MMCF (as NO <sub>2</sub> ) CO: ppm ppm @ 3% O <sub>2</sub> Ib/hr Ib/day Ib/MMCF CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>2</sub> Ib/hr Ib/day Ib/hr		19,2 0.046 24.28 0.1 0.2 0.003 0.08 0.0002	0.05
Ib/MMB(u (as NO <sub>2</sub> ) Ib/MMICF (as NO <sub>2</sub> ) CO: ppm ppm @ 3% O <sub>2</sub> Ib/MIBIU Ib/MMCF CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>2</sub> Ib/hr Ib/day Ib/MM DIU		0.046 24.28 0.1 0.2 0.003 0.08 0.0002	17.1 <del>6</del>
Ib/MMCF (as NO <sub>2</sub> )  CO: ppm ppm @ 3% O; lb/lar lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O; lb/lar lb/lar lb/lay lb/MMBtu		0.1 0.2 0.003 0.08 0.0002	17.1 <del>6</del>
ppm (3% O2   b)/lir   b)/day   b)/MMCF  CO: (defaulted to 20% of analyzer range)   ppm (3% O2   b)/hr   b)/day   b)/MMCF		0.2 0.003 0.08 0.0002	
ppm @ 3% O; lb/lir lb/day lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O; lb/br lb/day lb/MMBlu		0.2 0.003 0.08 0.0002	
ppm @ 3% O; lb/lir lb/day lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O; lb/hr lb/day lb/MM Blu		0.2 0.003 0.08 0.0002	
lb/lir lb/day lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>3</sub> lb/br lb/day lb/MMB10		0.003 0.08 0.0002	
Ib/day Ib/MMBIv Ib/MMCF  CO: {defaulted to 20% of nonlyzer range} ppm @ 3% O <sub>3</sub> Ib/br Ib/day Ib/MMBIv		0.08 0.0002	
lb/MMCF  CO: {defaulted to 20% of analyzer range} ppm @ 3% O <sub>3</sub> lb/br lb/day lb/MMBlu		0.0002	0.2
lb/MMCF  CO: (defaulted to 10% of analyzer range)  ppm @ 3% O <sub>3</sub> lb/hr  lb/day  lb/NIMBlu			0.2
ppm ppm @ 3% O <sub>3</sub> lt/ar lb/day lb/NINI Blu			
ppm ppm @ 3% O <sub>3</sub> Ib/dar Ib/day Ib/NINI Diu			
ppm @ 3% O <sub>3</sub> It/Ar Ib/day Ib/NINI Blu		20	
lb/hr lb/day lb/NIM Diu		58.12	
th/day th/NINI Dis		0.85	17.16
ib/hihitu		20.50	
		0.05	0.2
MANIFORM PILANCE		4.44	۷.۵
	33.000	< 1.00	
	5,193	2.33	
TGNNIO, ppm @ 3% O; (as methane)	-,	6.77	
TGNMO, lb/br (as CH <sub>1</sub> )	8.4	0.06	1.00
TGNNO, IMAM Biu (as CII4)	<b>-</b>		1.00
	202.3	0.003	
	102.3	1.42	
TGNMO, ppm (ns bexane)		929	
TGNMO, ppm @ 3% O, (as bexane)		1.20	<20 NSPS
TGNh10, lb/hr (as hexane)		0.05	
Destruction Eff. %		99.31	>98%
1b/AINICF		1.61	
Total Sulfur Compounds,			
	91.07		
SO2 Exhaust, lb/hr (as SO2)		0.50	
SOz Exhaust, lb/day(as SO <sub>3</sub> )		11.90	
SOx Exhaust, lb/hihi Bir(ns SO <sub>1</sub> )		0.029	
1b/A1A1CF		15.08	

The results in this table are the averages of all measurements.

TABLE 5-2 GENERAL RESULTS VRSD Toland Flare Jume 26, 2007

Parameter	inlet									EXHAUST							
	First Second					Third				First		Second Third					
		Run		Run		Run		Averege	<u>.                                    </u>	Rvn		Rub		Run		Average	
O <sub>10</sub> ¼		2.22		2.38		1.93		2.18		15.67		14.71		13.84		14.74	
CO <sub>h</sub> %		36.5		36.0		36.8		36.4		4.73		5.59		6.36		5.56	
		10.4	•	10.1		9.2		9.9		79.5		79.7		79.B		79.7	
N <sub>2</sub> %								• ••				7.04					
H2Q %		4.2		4.9		5.5		4.9		6.83				8.10		7.33	
Flow Rate, usefm		567.6		586,0		575.2		576.3		10,469		9,169		10,694		10,110	
Flow Rate, declar		543.8		557,3		543.6		54B		11,205		9,754		B,522		9,827	
Temperature, 'F		107		120		130		119		1,102 -		1,100		1,189		1,130	
Blukef		503		498		506		502		•							
MAIBtufffe		17.11		17.51		17.45		17.16									
NOn																	
ppst										9.92		11.58		13.07		11.52	
ppm @ 3% O,										34.0		33.5		33.1		33.5	
Th/hr (as NO <sub>2</sub> )										0.79		0.81		0.80		0.80	
ib/AiAi Btu (as NO <sub>2</sub> )										0.046		0.046		0,046		0.046	
CO:																	
<b></b>								•		0.16		0.03		0.01		0.07	
ppm										0.16		0.09		0.02		0.22	
ppm @ 3% O₂										0.008		0.001	<	0.001	<	0.003	
lb/br lb/xiAi Bm									<	0.008	<	0.001	<	0.001		0,003	
Idiata and									•	0.001	•	0.001	•	1,001	•	0.001	
Hydrocarbons:										•	,						
Cli_ppm		483,000		479,000		487,000		483,000	<	ı	<	1	<	1.	<	1	
Ethane, ppm		3.06		3.53		3.30		3.30	<	ľ	<	1	<	ı	<	t	
TGNMO, ppm (es CIL)		6,440		6,120		6,020		6,193		3.31		2.42		1.26		2.33	
TCNMO, Ib/lir (as CH <sub>2</sub> )		8.70		8,47		8.13		8.43		0.09		0.06		0.03		0.06	
TGNAIO, ppm (as beanne)		1,073,3		1,020.0		1.003.2		1.032.2		0.55		0.40		0.21		0.39	
TGNMO, ppm @ 3% O2 (es hexane)		1,028.5		985.9		946.7		987.0		1.89		1.17		0.53		1.20	
TGNNIO, lb/br (as hexane)		7.79		7.59		7.2B		7.55		80.0		0.05		0.02		0.05	
Destruction Est. %		7.13		127		9 20 20		1.33		98.94		9931		99.68		99.31	
										J-15 V		,		,,,,,		,,_,	
Seller Compounds: 11 <sub>2</sub> 5, ppm		79.1		82.2		828		81.37									
Carbonyi Sulfide, ppm	<	0.2	<	0.1	<	0.2	<	0.3									
Alethyl Atercapian, ppm	•	2.62	•	2.85	•	2.92	<	28									
Ethyl Alercapian, ppm	<	0.2	4	0.2	~	0.1	3	0.2									
Dimethyl Sullide, ppm	•	5.86	•	6.53	-	6.60	•	6.33									
Carbon Disulfide, ppm	<	0.2	<	0.2	<	0.50	ė	0.2									
rotalist mercentus' bbut	•	0.54	•	0.65	•	0.58	~	0.5									
	<	0.2	<	0.85	<	0.3	<	0.2									
n-propyl mercapton, ppm Dimethyl Dissifide.ppm	è	D.2	~	0.2	<	0.1	2	0.2									
Total Sulfar Compounds,	•	Upd	•	4.4	•	V.3	•	4.4									
Tatal Reduced Sulfer Inics, ppm		88.1		92.2		919		91.1									
SOr Exhaust, lb/hr (as SO <sub>2</sub> ) <sup>11</sup>		09.1		74.6		ATA		31.1		0.476		0.510		0.502		0.496	

The exhaust volume flow values are based on EPA Method 19.

# TABLE 5-1 SUMMARY OF RESULTS vs PERMIT CONDITIONS VRSD Toland Flare June 26, 2007

PARAMETER	INLET	EXHAUST	PERMIT LIMIT
D <sub>30</sub> %	2.18	14.74	
CO <sub>11</sub> %	36.43	14.74	
N <sub>2</sub> %		5.56 20.20	
	9.89	79.70	
H <sub>3</sub> 0, %	4.87	7.33	
Flow Rale, wsefm	576.3	10,110	
Flore Rate, decim	548.2	9,827	inlet 1,667
Temperature, *F (measured at sample ports)	119	1,130	
lemperature, F (measured at monitoring the		1,651	>1,400
Btu/sef .	502.0		
MMDtu/ir	17.36		
NOx:			
ppm	*	11.5	
ppm @ 3% O <sub>2</sub>		33.5	
lb/hr (ns NO <sub>2</sub> )		0.80	5.15
Ill/day (as NO <sub>2</sub> )		19.2	
Ib/AiMBtu (as NO <sub>2</sub> )		0.046	0.05
Ib/MINCF (22 NO.)		24.28	0.03
· •		~7 <b>~*</b>	
CO:			
ppm 0.31/ O		0.1	
ppm @ 3% O;		0.2	
lb/hr		0.003	17.16
lb/day		80.0	
lb/MIMBtu		0.0002	0.2
Ib/MMCF		0.10	
CO: (defaulted to 20% of nonlyzer range)			
ppm		20	
ppm@3%O,		58.12	
lb/or		0.85	17.16
lb/day		20.50	17.10
Ib/MM Din		0.05	0.2
		<b>4.43</b>	V.2
Hydrocarbons	100 000		
Cl1, ppm	483,000	< 1.00	
TGNNIO, ppm (ns CH <sub>a</sub> )	6,193	2.33	
TGNMO, ppm @3% O; (as methane)		6.77	
TGNMO, lb/br (as CH <sub>4</sub> )	8.4	0.06	1.00
TGNMO, IMMM Blu (as CII.)		0.003	
TGNMO, Ibiday (as Cli <sub>d</sub> )	202.3	1.42	
TGNMO, ppm (as hexane)		0.39	
TGNMO, ppm @ 3% O; (as bezone)		1.20	<20 NSPS
TGNMO, lb/hr (as hexane)		0.05	
Destruction Eff. %		99.31	>91%
1b/AIMICF		1.61	
Total Sulfur Compounds,			
	01 67		
Total Reduced Sulfer Inlet, ppm	91.07	0.50	
SO2 Exhaust, Ib/hr (as SO <sub>2</sub> )		0.50	
SOz Exhaust, ib/day(as SO <sub>2</sub> )		11.90	
SOx Exhausi, lb/hihiB(u(as SO <sub>2</sub> )		0.029	
16/AIMCF		15.08	

Note

The results in this table are the averages of all measurements.

TABLE 5-2 GENERAL RESULTS VRSD Toland Flare June 26, 2007

Parameter	INLET								-				ILUS			
		First	Second		Third				First				Third			
		Run		Run		Rua		Average	<u>.</u>	Run		Rub		Run		Average
O <sub>10</sub> %		2.22		2.38		1.93		2.18		15.67		14.71		13.84		14,74
CO <sub>2</sub> %		36.5		36.0		36.8		36.4		4.73		5.59		6.36		5.56
N <sub>2</sub> %		10.4	•	10.1		9.2		9.9		79.6		79.7		79.B		79.7
11.Q %		4.2		4.9		5.5		4.9		6.83		7.04		8.10		7.33
Flow Role, wselm		567.6		586.D		575.2		576.3		10.469		9,169		10,694		10,110
Flow Rate, distina		543.8		557,3		543.6		54B		11,205		9,754		B,522		9,827
Temperature, °F		107		[20		130		119		1,102		1,100		1,189		1,130
Binkel		503		498		506		502				.,,		,,,,,,		-,
MMBtuffe		17.11		17.51		17.45		17.36								
NOn																
ppm								_		9.92		11.58		13.07		11.52
ppm @ 3% O,								-		34.0		33.5		<b>33.</b> l		33.5
lb/br (as NO <sub>3</sub> )	•									0.79		0.81		0.80		0.80
Ib/AIAI Biu (as NO2)										0.046		0.046		0.016		0.046
CO:																
ppm								•		0.16		0.03		10.0		0.07
ppm @ 3% O <sub>2</sub>										0,56		0.09		0.02		9,22
lb/ar								•		800,0		0.001	<	0.001	<	0,003
Ib/AIAI Bru									<	0.001	<	0.001	<	100.0	<	0.001
Hydrocarbons:												•				
Cli_ ppm		483,000		479,000		487,000		483,000	<	ı	<	1	<	l .	<	1
Ethane, ppm		3.06		3.53		3.30		3.30	<	ľ	<	1	<	1	<	t
TGNMO, ppm (as CII,)		6,440		6,120		6,020		6,193		3.31		2.42		1.26		2.33
TCNNIO, Ib/hr (as CII4)		8.70		8.47		8.13		8.43		0.09		0.06		0.03		0.06
TGNAIO, ppm (as beanne)		1,073.3		1,020.0		1,003.3		1,032.2		0.55		0.40		0.21		0.39
TCNMO, ppm@3% Oz (es besant)		1,028.5		985.9		946,7		987,0		1.89		1.17		0.53		1.20
TGNAIO, lb/br (as hexane)		7.79		7.59		7.2B		7.55		80,0		0,05		0.02		0,05
Destruction Eff. %										98.94		9931		99.68		99.31
Solfur Compounds:																
17 <sub>2</sub> 5, ppm		79.1	_	82.2	_	82.8		81.37								
Carbonyl Sulfide, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Methyl Mercapton, ppm		2.62	•	2.85	<	2.92	<	2.8								
Ethyl Alerenpino, ppm	<	0.2	4	0.2 6.63	~	0.3	<	0.2								
Distribut Suilde, ppm		5,86	<	6.51 0.2	<	6,60	ě	6,33 0.2								
Carlion Disulfide, ppm	<	0.2 0.54	<	0.2	•	0.2 0.5B	<	0.2 0.6								
Lopryyl merceptan, ppm	<	0.2	<	0.65 8.2	<	0.38	<	0.2								
n-propyi mercapton, ppm Dimethyl Dissifide.ppm	•	0.2	~	0.2	~	0.2	2	0.2								
Total Spiler Compounds,	•	Upd	•	V.4	•	V.4	•	V.A								
Tetal Reduced Salfer Inici, ppm		88.L		92.2		919		91.1								
SOr Exhaust, lb/hr (as SO <sub>2</sub> ) <sup>11</sup>		99.1		76.4		747		31.1		0.476		0.510		0,502		0.496

The exhaust volume flow values are based on EPA Method 19.

# Ventura County Air Pollution Control District

### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number	
and/or Permit Condition Number:	Description: Rule 57.1, Particulate Matter Emissions from Fuel
PO7340PC2 – Condition No. 4 Rule 57.1	Burning Equipment.

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Periodic monitoring is not necessary to certify compliance with Rule 57.1. EPA particulate matter emission factors for landfill gas flares indicate that this flare will comply with Rule 57.1. To certify compliance, a reference to EPA emission factors is sufficient. (Rule 57.1)

- 2. X Yes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. □Yes × No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

### Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 26, Flare Equipment Requirements.	
PO7340PC2 – Condition No. 5		
Rule 26		

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The flare is equipped with a UV flame scanner to ensure that the flare is operating. The flare is equipped with site ports, sampling ports, a safety system to shut off the burner (flame failure alarm, gas shut off valve), inlet flow recorders, a burner assembly, and gas pilot light or electronic igniter. All devices are maintained, operated, and calibrated according to manufacturer's specifications.

- 2. X Yes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. Dering the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

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Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 26 – Flare Condensate Knockout / Filter
PO7340PC2 – Condition No. 6	Requirements.
Rule 26	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The flare is operated with a condensate knockout/ filter vessel.

- 2. X Yes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. The Second Puring the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

# Ventura County Air Pollution Control District

### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

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### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 26 – Collection Vessel Emission
PO7340PC2 – Condition No. 7	Requirements.
Rule 26	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The emissions from the condensate and leachate collection vessels are routed to the flare for incineration on a continuous basis. This system is visually inspected on a routine basis to ensure proper operation.

- 2. X Yes \( \subseteq No \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. □Yes × No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

# Ventura County Air Pollution Control District

### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 51 – Flare Dimensions and Exhaust Velocity.
PO7340PC2 – Condition No. 8	
Rule 51	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The height of the flare shall be no less than 45 feet. The stack diameter shall not exceed 9 feet. The stack gas exit velocity from the flare shall be no less than 4.4 feet per second and no more than 38.0 feet per second. In order to comply with this condition, the permittee shall conduct testing as required by this attachment to determine the flare stack exit velocity. (Rule 51)

The stack by design is rated at 260-2600 SCFM or 4.4 - 38 feet per second. Routine operation ranges from 500 - 1000 SCFM, which is well within design parameters.

- 2. X Yes \( \subseteq No \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

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- 5. □Yes × No
- During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
- 6.  $\square$ Yes  $\times$  No
- During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 51 - Toxics testing and HRA Requirements.
PO7340PC2 – Condition No. 9 & 10	
Rule 51	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Bi-Annual source testing for Flare was conducted June 26, 2007. The complete report is on file with the VCAPCD. Flare was source tested for Toxics in June 2005. Next required Toxics testing for Flare is June 2009.

- 2. X Yes \( \subseteq No \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. Dering the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

### 5.0 SUMMARY OF RESULTS

### TABLE 5-1 SUMMARY OF RESULTS vs PERMIT CONDITIONS VRSD Toland Flore

June 26, 2007

PARAMETER	INLET	EXHAUST	PERMIT LIMIT
D <sub>2</sub> , %	2.18	14,74	
CO <sub>11</sub> %	36.43	5.56	
N <sub>12</sub> %	9.89		
H <sub>3</sub> 0, %		79.70	
<b>▼</b> -	4.87	7.33	
Flow Rate, wsefm	576.3	10,110	
Flow Rate, discim-	548.2	9,827	inlet 1,667
Temperature, *F (measured at sample ports)	119	1,130	
Temperature, °F (measured at monitoring th		1,651	>1,408
Bin/sef	<i>5</i> 02.0		
NIMI Diu/II r	17.36		
NOx:			
ppm		11.5	
ppm @ 3% O <sub>1</sub>		33.5	-
lb/hr (ns NO <sub>3</sub> )		0.80	5.15
liday (as NO <sub>2</sub> )		19,2	
Ib/ASMBtu (as NO <sub>2</sub> )		0.046	0.05
IDMINICF (as NO.)		24.28	
co:			
ppm		0.1	
ppm @ 3% O <sub>2</sub>		0.2	
lb/lir		0.003	17.16
lb/day		0.08	*****
lb/MiMBtu		0.0002	0.2
Ib/MMCF		0.10	V.2
CO: (defaulted to 20% of analyzer range)			
ppm		20	
ppm @ 3% O <sub>2</sub>		58.12	
lp/pr		0.85	17.16
			17.16
lb/day		20.50	
ip\u00e4iyiyi		0.05	0.2
Hydrocarbons:	483,000	< 1.00	
Cil, ppm			
TGNMO, ppm (as CH <sub>4</sub> )	6,193	2.33	
TGNNIO, ppm @ 3% O, (as methane)		6.77	
TGNMO, lb/br (as CH,)	8.4	0.06	1.00
TGNMO, IMAIM Blu (as CII.)	•	0.003	
TGNMO, Ibday (as Cit <sub>4</sub> )	202.3	1.42	
TGNMO, ppm (ns hexane)		0.39	
TGNMO, ppm @ 3% O3 (as bezone)		1.20	<20 NSPS
TGNh10, lb/hr (as hexane)		0.05	
Destruction Eff. %		99.31	>98%
1b/nimcf		1.61	
Total Sulfur Compounds,			
Total Reduced Sulfur Inlet, ppm	91.07		
SO2 Exhaust, lb/hr (as SO2)		0.50	
SOz Exhaust, lb/day(as SO <sub>2</sub> )		11.90	
50x Exhaust, lb/hihiBtu(as SO2)		0.029	
1b/N1MCF		15.08	

The results in this table are the averages of all measurements.

# 5.0 SUMMARY OF RESULTS

TABLE 5-2 GENERAL RESULTS VRSD Toland Flare June 26, 2007

				INLE	<u>T</u>				EXHAUST									
_		First		Second		Third				First		Second		Third				
Parameter		Run		Run		Rua		Average	<u>.                                    </u>	Ryn		Rus		Run		Average		
O <sub>20</sub> %		2.22		2.38		1.93		218		15.67		14.71		13.84		14,74		
CO <sub>2</sub> %		36.5	_	36.0		36.8		36.4		4.73		5.59		6.36		5.56		
N <sub>2</sub> , %		10.4	-	10.1		9.2		9.9		79.5		79.7		79.B		79.7		
11:0, %		4.2		4.9		5.5		4.9		6.83		7.04		8.10		7.33		
ngy 70 Flow Role, vscfm		567.6		586.0		575.2		576.3		10,469		9,169		10,694		10,110		
Flow Rate, discina		543.8		557.3		543.6		54B		11,205		9.754		B.522		9,827		
Temnerature, 'F		107		[20		130		119		1,102		1,100		1,189		1,130		
Binkel		503		498		506		502		.,		-,						
MMBtu/lie		17.11		17.51		17.45		17,36										
NOn																		
ppm										9.92		11.58		13.07		11.52		
ppm @ 3% O,										34.0		33.5		33.1		33.5		
fb/ar (as NO <sub>2</sub> )		•								0.79		0,81		0.80		0.80		
Ib/AIM Btu (as NO <sub>2</sub> )										0.046		0.046		0.016		0.046		
CO:																		
ppm										0.16		0.03		0.01		0.07		
ppm @ 3% O <sub>3</sub>										0.56		0.09		0.02		0,22		
1b/ar								•		800,0		0.001	<	0.001	<	0,003		
Ib/A1A1 Bru									<	0.001	<	0.001	<	100.0	<	0.001		
Hydrocarbons:																		
Cli <sub>4</sub> ppm		483,000		479,000		487,000		483,000	<	ı	<	1	<	l .	<	1		
Ethane, ppm		3.06		3.53		3.30		3.30	<	t	<	1	<	l	<	ı		
TGNMO, ppm (as CII,)		6,440		6,120		6,020		6,193		3.31		2.42		1.26		2.33		
TCNMO, lb/hr (as CH <sub>4</sub> )		8.70		8.47		8.13		8.43		0.09		0.06		0.03		0.06		
TGNAIO, ppm (as beanne)		1,073.3		1,020.0		1,003.2		1,032.2		0.55		0.40		0.21		0.39		
TCNMO, ppm@3% O, (os besane)		1,028.5		985.9		946,7		987,0		1.89		1.17		0.53		1.20		
TGNNIO, lb/br (at hexane)		7.79		7.59		7.2B		7.55		80,0		0.05		0.02		0,05		
Destruction EIL %										98.94		9931		99.68		9931		
Solfur Compounds:		79.1		82.2		82.8		81.37										
11 <sub>2</sub> S, ppm	<	0.2	<	0.2	<	0.2	<	0.2										
Carbonyi Sulfide, ppm	•	2.62	•	2.85	•	2.92	~	2.8										
Methyl Mercapian, ppm Ethyl Mercapian, ppm	<	0.2	<	0.2	<	0.1	~	0.2										
Dimethyl Sullide, ppm	•	5.86	•	6.53	-	6.60	•	6.33										
Carbon Disulfide, ppm	<	0.2	<	0.2	<	0.2	4	0.2										
real programs blue	•	0.54	•	0.65	•	0.58	<	0.6										
n-propyl mercapton, plim	<	0.2	<	0.2	<	0.1	<	0.2										
Dimethyl Disulfulc.ppm	Č	0.2	4	0.2	<	0.2	<	0.2										
Total Spilar Compounds,	-																	
Temi Reduced Sulfur Inici, ppm SOg Exhaust, 19/hr (as SO.)		88.L		92.2		919		91.1		0.476		0.510		0,502		0.496		

The exhaust volume flow values are based on EPA Method 19.

Applicable Requirement or Part 70 Permit Condition Attachment

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# **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 74.17.1 – Micro-Turbine Emission Limits.								
	Description. Rule 74.17.1 Where-Turome Emission Emits.								
PO7340PC2 - Condition Nos. 1, 3 & 4 Rule 74.17.1									
Attach to this form any information certification in the applicable requirement	on specifically required to be submitted with the compliance nent or Part 70 permit condition.								
1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency o monitoring and indicate the source test reference method, if applicable.									
Source tests conducted every 2 years the permit limits. The source test is a	s, last source test was July 31, 2008. All parameters were below attached.								
	ntly in compliance as indicated by the <u>most recent</u> monitoring robservation as described above?								
3. Please indicate if compliance during	ng the reporting period was continuous or intermittent:								
	measurements show compliance with the Part 70 permit condition easurements indicate a failure to meet the Part 70 permit condition								
monitoring data "a departure fi monitoring und	ne period covered by this compliance certification, does the a indicate any excursions, if applicable? An excursion is defined as rom an indicator or surrogate parameter range established for der the applicable requirement or Part 70 permit condition, any averaging period specified for averaging the results of the								
monitoring dat defined as "a co of an emission l are greater than	me period covered by this compliance certification, does the a indicate any exceedances, if applicable? An exceedance is condition that is detected by monitoring that provides data in terms limitation or standard and that indicates that emissions (or opacity) in the applicable emission limitation or standard (or less than the dard in the case of percent reduction requirement) consistent with								

any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. □Yes × No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

### 5.0 SUMMARY OF RESULTS

# TABLE 5-1 SUMMARY OF TEST RESULTS VRSD - Toland Landfill Microturbine

July 31, 2008

PARAMETER	INLET	EXHAUST	PERMIT LIMIT
O <sub>2</sub> , %	2.12	18.20	
CO <sub>2</sub> , %	39.43	2.37	
N <sub>2</sub> , %	11.27	79.43	
H <sub>2</sub> O, %	•	3.78	
Flow Rate, wscim	-	1,134	
Flow Rate, dscfin	30.0	1,087	
Temperature, °F	89	456.9	
B tu/scf	475		
MMBtu/Hr	0.86		
Hydrocarbons:			
CH <sub>4</sub> ppm	469,333	< 1.00	
TGNMO, ppm (as CH <sub>4</sub> )	8,173	3.80	
TGNMO, lb/hr (as CH <sub>4</sub> )	0.61	0.01	
TGNMO, lb/MM Btu (as CH <sub>4</sub> )		0.012	
TGNMO, lb/day (as CH <sub>4</sub> )	14.6	0.25	
TGNMO, ppm (as hexane)		0.63	
TGNMO, ppm @ 3% O2 (as hexane)		4.26	20
TGNMO, lb/hr (as hexane)		0.01	
Destruction Eff. %		98.28	98+
lb/M MCF		5.11	
Total Sulfur Compounds,			
Total Reduced Sulfur Inlet, ppm	139.3		
SOx Exhaust, lb/hr (as SO <sub>2</sub> )		0.04	0.25
SOx Exhaust, lb/day(as SO <sub>2</sub> )		1.00	0.25
SOx Exhaust, lb/MMBtu (as SO <sub>2</sub> )		0.049	

Motes

The results in this table are the averages of all measurements.

# 5.0 SUMMARY OF RESULTS (Continued)

TABLE 5-2 GENERAL RESULTS VRSD - Toland Landfill Microturbine July 31, 2008

	INLET									EXHAUST							
		First		Second		Third				First		Second		Third			
Parameter		Run		Run		Run		Average		Run		Run		Run		Average	
O <sub>2</sub> , %		3.00		1.73		1.62		2,12		18.50		17.90		18.20		18,20	
CO <sub>21</sub> %		37.7		40.3		40.3		39.4		2.23		2.44		2.43		2.37	
CH4, %		44.8		48.0		48.0		46.9		•				-		-	
N <sub>2</sub> , %		14.2		9.7		9.9		11.3		79,3		79.7		79.4		79.4	
1120, %		•		-		-		•		3.71		3,50		4.14		3,78	
Flow Rate, wscfm				_				_		1,155		1,112		1,134		1,134	
Flow Rate, dscfm		30		30		30		30		1,076		1,112		1,073		1,087	
Temperature, "F		77.8		89.6		101.0		89.5		457		460		454		457	
Btu/sef		467		479		479		475		-		-		-		-	
MMBtu/Hr		0.84		0.86		0.86		0.86		-		-		•		•	
Hydrocarbons:																	
CH <sub>4</sub> , ppm		448,000		480,000		480,000		469,333	<	1	<	1	<	1	<	1	
TGNMO, ppm (as CH4)		7,080		9,180		8,260		8,173		4.81		4.22		2.36		3.80	
TGNMO, lb/hr (as Cll4)		0.53		0.68		0.62		0.61		0.01		10,6		0.01		0.01	
TGNMO, ppm (as hexane)		1,180.0		1,530.0		1,376.7		1,362.2		0.80		0.70		0.39		0.63	
TGNMO, ppm @ 3% O2 (as hexane)		1,180.0		1,428.6		1,278.1		1,295.6		5.98		4.20		2.61		4.26	
TGNMO, lb/hr (as hexane)		0.47		0.61		0.55		0.55		0.01		0.01		0.01		0.01	
Destruction Eff. %										97.56		98.30		98.98		98.28	
Sulfur Compounds:																	
H <sub>2</sub> S, ppm		122		126		128		125,3									
Carbonyl Sulfide, ppm		0.34		0.34		0.37		0.35									
Methyl Mercaptan, ppm		4.16		4.37		4.44		4.32									
Ethyl Mercaptan, ppm	<	0.2	<	0.2	<	0.2	<	0.2									
Dimethyl Sulfide, ppm		8.24		8.61		8.73		8.53									
Carbon Disulfide, ppm		0.22		0.23		0,23		0.23									
isoprpyl mercaptan, ppm		0,66		0.69		0.71		0.69									
n-propyl mercaptan, ppm	<	0.2	<	. 0.2	<	0.2	<	0.2									
Dimethyl Disulfide,ppm	<	0.2	<	0.2	<	0.2	<	0.2									
Total Sulfur Compounds,		17/		* 40				120.7									
Total Reduced Sulfur Inlet, ppm		136		140		142		139.3		201		0.04		0.04			
SOx Exhaust, lb/lir (as SO <sub>2</sub> )										0.04		0.04		0.04		0.04	

The exhaust volume flow values are based on EPA Method 1-4.

# Ventura County Air Pollution Control District

### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### **Applicable Requirement or Part 70 Permit Condition**

	tion, Including Atta or Permit Condition		Description: Rule 54, Sulfur Compounds – Micro-Turbine.
	340PC3 dition Nos. 2, 3 & 4	1	
		•	ion specifically required to be submitted with the compliance ment or Part 70 permit condition.
		, ,	at you use for determining compliance. Indicate the frequency of the test reference method, if applicable.
Source	ce test is conduc	eted every four y	years. The last source test was July 31, 2008. All parameters were
below	v the permit lim	its. The source t	test is attached.
2. 🗙	Yes □No	•	ently in compliance as indicated by the most recent monitoring or observation as described above?
3. P	lease indicate if	compliance duri	ing the reporting period was continuous or intermittent:
×			measurements show compliance with the Part 70 permit condition leasurements indicate a failure to meet the Part 70 permit condition
4.	lYes × No	monitoring dat	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An <i>excursion</i> is defined as from an indicator or surrogate parameter range established for
		monitoring un	nder the applicable requirement or Part 70 permit condition, have averaging period specified for averaging the results of the
5.	lYes × No	monitoring da defined as "a c of an emission are greater tha applicable stan	me period covered by this compliance certification, does the ta indicate any exceedances, if applicable? An exceedance is condition that is detected by monitoring that provides data in terms limitation or standard and that indicates that emissions (or opacity) in the applicable emission limitation or standard (or less than the indard in the case of percent reduction requirement) consistent with period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. ☐ Yes X No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:	
01/01/08 to 12/31/08	
01/01/00 10 12/31/00	

# Quantifiable Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF47/12-21-98

	-			
Emission Unit Description: 85.8 MMBTU/Hr LFG Specialtie	s Inc. enclosed landfill gas fl	are.		Pollutant: NMOC, NOx, SOx and CO.
Measured Emission Rate: TGNMO, lb/hr (as CH4) = 0.06 NOx, lb/hr (as NO2) = 0.80 SOx, lb/hr (as SO2) = 0.50 CO, lb/hr = 0.003	Limited Emission Rate: TGNMO, lb/hr (as CH4) = NOx, lb/hr (as NO2) = 5.15 SOx, lb/hr (as SO2) = 1.72 CO, lb/hr = 17.16	5	Specific Source Test or Monitoring Record Citation: PO7340PC2, Conditi Test Date: June 26, 2007	on 2
Emission Unit Description: 70 Kilowatt Ingersoll-Rand Powe	rWorks micro-turbine.			Pollutant: NMOC
Measured Emission Rate: TGNMO, ppm @ 3% O2 (as hexane) = 4.26 Destruction Eff.% = 98.28 SOx, lb/hr (as SO2) = 0.04	Limited Emission Rate: TGNMO, ppm @ 3% O2 (a hexane) = 20 Destruction Eff.% = 98+ SOx, lb/hr (as SO2) = 0.25		Specific Source Test or Monitoring Record Citation: PO7340PC3, Conditi Test Date: July 31, 2008	on 2, 3, & 4
Emission Unit Description:				Pollutant:
Measured Emission Rate:	Limited Emission Rate:		ific Source Test or Monitoring rd Citation:  Date:	
Emission Unit Description:				Pollutant:
Measured Emission Rate:	Limited Emission Rate:		ific Source Test or Monitoring ord Citation:  Date:	
Emission Unit Description:	· · · · · · · · · · · · · · · · · · ·			Pollutant:
Measured Emission Rate:	Limited Emission Rate:		ific Source Test or Monitoring rd Citation:	

### 5.0 SUMMARY OF RESULTS

# TABLE 5-1 SUMMARY OF TEST RESULTS VRSD - Toland Landfill Microturbine

July 31, 2008

PARAMETER	INLET	EXHAUST	PERMIT LIMIT
O <sub>2</sub> , %	2.12	18.20	
CO <sub>2</sub> , %	39.43	2.37	
N <sub>2</sub> , %	11.27	79.43	
H <sub>2</sub> 0, %	<u>.</u>	3.78	
Flow Rate, wscim	<b>.</b>	1,134	
Flow Rate, dscfin	30.0	1,087	
Temperature, °F	89	456.9	
Btu/scf	475		
MMBtu/Hr	0.86		
Hydrocarbons:	·		
CH <sub>4</sub> ppm	469,333	< 1.00	
TGNMO, ppm (as CH <sub>4</sub> )	8,173	3.80	
TGNMO, lb/hr (as CH <sub>4</sub> )	0.61	0.01	
TGNMO, lb/MM Btu (as CH <sub>4</sub> )	•	0.012	
TGNMO, lb/day (as CH <sub>4</sub> )	14.6	0.25	
TGNMO, ppm (as hexane)		0.63	
TGNMO, ppm @ 3% O2 (as hexane)		4.26	20
TGNMO, lb/hr (as hexane)		0.01	
Destruction Eff. %		98.28	98+
lb/M MCF		5.11	74
Total Sulfur Compounds,			
Total Reduced Sulfur Inlet, ppm	139.3		
SOx Exhaust, lb/hr (as SO <sub>2</sub> )		0.04	0.25
SOx Exhaust, lb/day(as SO <sub>2</sub> )		1.00	<b>0.20</b>
SOx Exhaust, lb/MMBtu (as SO <sub>2</sub> )		0.049	And the second

Notes

The results in this table are the averages of all measurements.

# 5.0 SUMMARY OF RESULTS (Continued)

TABLE 5-2 GENERAL RESULTS VRSD - Toland Landfill Microturbine July 31, 2008

				IN	LE7	•						EX	HAI	JST		
		First		Second		Third				First		Second		Third		· · · · · · · · · · · · · · · · · · ·
Parameter		Run		Run		Run		Average		Run		Run		Run		Average
02, %		3.00		1.73		1.62		2,12		18,50		17.90		18.20		18,20
CO <sub>21</sub> %		37.7		40.3		40.3		39.4		2.23		2.44		2.43		2.37
CH <sub>4</sub> , %		44.8		48.0		48.0		46.9				2.54				2.31
N <sub>21</sub> %		14.2		9.7	,	9.9		11.3		79,3		79.7		79.4		79,4
1120, %						-				3.71		3,50		4.14		3.78
Flow Rate, wscfm				_				_		1,155		1,112		1,134		1,134
Flow Rate, dscfm		30		30		30		30		1,076		1,112		1,073		1,087
Temperature, "F		77,8		89.6		101.0		89.5		457		460		454		457
Btu/scf		467		479		479		475		-		-		•		
MMBtu/Hr		0.84		0,86		0.86		0.86		-		- ,		•		•
Hydrocarbons:																
СН4 ррш		448,000		480,000		480,000		469,333	<	1	<	1	<	1	<	1
TGNMO, ppm (as CH <sub>2</sub> )		7,080		9,180		8,260		8,173		4.81		4.22		2,36	-	3.80
TGNMO, lb/hr (as CH <sub>4</sub> )		0.53		0.68		0.62		0.61		0.01		0.01		0.01		0.01
TGNMO, ppm (as hexane)		1,180.0		1,530,0		1,376,7		1,362.2		0.80		0.70		0.39		0.63
TGNMO, ppm @ 3% O2 (as hexane)		1,180.0		1,428.6		1,278,1		1,295.6		5.98		4.20		2.61		4,26
TGNMO, lb/hr (as hexane)		0,47		0.61		0.55		0.55		0.01		0.01		0.01		0.01
Destruction Eff. %								0,50		97.56		98.30		98.98		98.28
Sulfur Compounds:																
H <sub>2</sub> S, ppm		122		126		128		125,3								
Carbonyl Sulfide, ppm		0,34		0.34		0.37		0.35								
Methyl Mercantan, ppm		4.16		4.37		4.44		4.32								
Ethyl Mercaptan, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Dimethyl Sulfide, ppm		8.24		8.61		8.73		8.53								
Carbon Disulfide, ppm		0.22		0.23		0,23		0.23								
isoprpyl mercaptan, ppm		0,66		0.69		0.71		0.69	•							
n-propyl mercaptan, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Dimethyl Disulfide,ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Total Sulfur Compounds,				•												
Total Reduced Sulfur Inlet, ppm		136		140 .		142		139.3								
SOx Exhaust, lb/hr (ns SO <sub>2</sub> )										0.04		0.04		0.04		0.04

The exhaust volume flow values are based on EPA Method 1-4.

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number	
and/or Permit Condition Number:	Description: Rule 74.17.1 – Micro-Turbine Metering
	Requirements.
PO7340PC3 - Condition Nos. 5	
Rule 74.17.1	

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The Micro-Turbine consumed 4,994 MMBTU during 2008. Micro-Turbine gas flow rate is continuously recorded by continuously recording the micro-turbine power output and back calculating the gas flow rate based on a heat rate of 14,500 BTU (LHV)/KW-hr. (40CFR60.756(b)(2)).

- 2. X Yes \( \subseteq \) No Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. Description During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

# 2008 Toland Micro-Turbine Summary

	<b>Turbine Hours</b>	IIS		Power		LFG			
	Start	Stop	Difference	Avg	Total	CH4 Avg	Flow Avg	Total	
2008	(hrs)	(hrs)	(hrs)	(Kw)	(kWh)	(%)	(scfm)	(cf LFG)	(MMBtu)
Jan-08	17,498	17,498	0	0	0	51.8%	0.0	0	00.0
Feb-08	17,498	17,498	0	0	0	49.9%	0.0	0	00.0
Mar-08	17,498	17,981	483	65	31,395	46.2%	6.09	1,765,050	455.23
Apr-08	17,981	18,701	720	09	60 43,200	45.2%	43.3	1,869,103	626.40
May-08	18,701	19,440	739	09	60 44,340	51.0%	47.6	2,110,759	642.93
Jun-08	19,440	20,152	712		55 39,160	44.4%	46.9	2,005,618	567.82
30-InC	20,152	20,770	618	52	33,990	%8'39%	67.3	2,494,044	492.86
Ang-08	20,770	20,938	168	99	9,240	21.5%	230.6	2,324,765	133.98
Sep-08	20,938	21,314	326	09	22,560	21.1%	93.7	2,113,655	327.12
Oct-08	21,314	22,043	729	09	43,740	51.8%	49.0	2,143,862	634.23
Nov-08	22,043	22,570	527	92	34,255	<b>%6</b> '6 <b>†</b>	60.2	1,904,085	496.70
Dec-08	22,570	23,224	654	9	42,510	<b>%6</b> '9 <del>1</del>	45.7	1,792,934	616.40
		Total hrs:	5,726					20,523,875	4,993.66
-		Hrs/Yr:	8760						
		Uptime:	65%						

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### **Applicable Requirement or Part 70 Permit Condition**

monitoring."

5. □Yes × No

Citation, Including Attachment Number

and/or Permit Condition Number:	Description: Rule 50, Opacity.
Condition No. 50	
Attach to this form any informatic certification in the applicable requires	on specifically required to be submitted with the compliance nent or Part 70 permit condition.
	at you use for determining compliance. Indicate the frequency of e test reference method, if applicable.
Visual inspection of flare and routine	e inspections. See attached survey.
	ntly in compliance as indicated by the <u>most recent</u> monitoring or observation as described above?
3. Please indicate if compliance duri	ng the reporting period was continuous or intermittent:
	measurements show compliance with the Part 70 permit condition easurements indicate a failure to meet the Part 70 permit condition
monitoring dat "a departure monitoring ur	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An <i>excursion</i> is defined as from an indicator or surrogate parameter range established for ider the applicable requirement or Part 70 permit condition, in any averaging period specified for averaging the results of the

During the time period covered by this compliance certification, does the

monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with

any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

# **VCAPCD Rule 50, Opacity Annual Compliance Survey**

### **Survey Information:**

By: Jason Siegert

Date: December 30, 2008 Time: 1:30 PM to 2:00PM

Emissions Unit: Toland Landfill Flare

<u>Verification</u>: On the above date I observed no visible emissions (including uncombined water) greater than zero percent for a period or periods aggregating more than three (3) minutes during the time observed (0.5 hour).

JASON SIEGERT – SOURCE CONTROL INSPECTOR

# Ventura County Air Pollution Control District

# COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

# **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 54.B.1, Sulfur Compounds.
Condition No. 54.B.1	
Attach to this form any information certification in the applicable requirement	on specifically required to be submitted with the compliance nent or Part 70 permit condition.
• •	at you use for determining compliance. Indicate the frequency of the test reference method, if applicable.
Compliance with Rule 64 ensures con	mpliance with this rule based on District analysis.
•	ntly in compliance as indicated by the <u>most recent</u> monitoring robservation as described above?
3. Please indicate if compliance duri	ng the reporting period was continuous or intermittent:
	measurements show compliance with the Part 70 permit condition easurements indicate a failure to meet the Part 70 permit condition
monitoring data "a departure f monitoring un	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An excursion is defined as from an indicator or surrogate parameter range established for der the applicable requirement or Part 70 permit condition, any averaging period specified for averaging the results of the
monitoring dat defined as "a c of an emission are greater that applicable stan-	me period covered by this compliance certification, does the ta indicate any exceedances, if applicable? An exceedance is ondition that is detected by monitoring that provides data in terms limitation or standard and that indicates that emissions (or opacity) in the applicable emission limitation or standard (or less than the dard in the case of percent reduction requirement) consistent with period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

6.	☐Yes <b>×</b> No	During the time period covered by this compliance certification, do you have any
		other information or data that indicates that you are not in compliance?

- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification	n:		
• • • •			
	01/01/08 to 12/2	31/08	

# Ventura County Air Pollution Control District

# COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

# **Applicable Requirement or Part 70 Permit Condition**

	Citation, Including Attaind/or Permit Condition		Description: Rule 54.B.2, Sulfur Dioxide.
(	Condition No. 54.B.2		
		***************************************	
			on specifically required to be submitted with the compliance ment or Part 70 permit condition.
1.			at you use for determining compliance. Indicate the frequency of e test reference method, if applicable.
	mpliance with rul urce Tests June 26		ompliance with this rule based on District analysis. See attached
2.	<b>X</b> Yes □No	•	ently in compliance as indicated by the <u>most recent</u> monitoring or observation as described above?
3.	Please indicate if	compliance duri	ng the reporting period was continuous or intermittent:
			measurements show compliance with the Part 70 permit condition easurements indicate a failure to meet the Part 70 permit condition
4.	□Yes × No	monitoring dat "a departure if monitoring un	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An <i>excursion</i> is defined as from an indicator or surrogate parameter range established for ider the applicable requirement or Part 70 permit condition, in any averaging period specified for averaging the results of the
5.	□Yes × No	monitoring da defined as "a c of an emission are greater tha	me period covered by this compliance certification, does the ta indicate any exceedances, if applicable? An exceedance is condition that is detected by monitoring that provides data in terms limitation or standard and that indicates that emissions (or opacity) in the applicable emission limitation or standard (or less than the dard in the case of percent reduction requirement) consistent with

any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. The Yes X No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:	
01/01/08 to 12/31/08	•

# 5.0 SUMMARY OF RESULTS

# TABLE 5-1 SUMMARY OF RESULTS vs PERMIT CONDITIONS VRSD Toland Flare June 26, 2007

ppm ppm @ 3% O <sub>3</sub> lb/hr lb/day lb/NIMBIu	14.74 5.56 79.70 7.33 10,110 9,827 1,130 1,651	Intet 1,667 >1,400 5.15
CO2, % 36.43 N2, % 9.89 H30, % 4.87 Flow Rate, was fin 576.3 Flow Rate, das fin 548.2 Femperature, °F (measured at sample ports) 119 Temperature, °F (measured at monitoring thermocouple) Blu/sef 502.0 MMiDiu/Hr 17.36 NO2: ppm ppm @ 3% O2 Ib/M (as NO2) Ib/M (as NO2)  CO: ppm ppm @ 3% O2 Ib/M Btu (as NO2)  CO: ppm ppm @ 3% O2 Ib/M Btu Ib/M MBtu Ib/M MBtu Ib/M MCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O2 Ib/he Ib/day Ib/M MBtu	5.56 79.70 7.33 10,110 9,827 1,130 1,651	>1,400 5.15
N <sub>1</sub> , %  H <sub>2</sub> 0, %  H <sub>2</sub> 0, %  A.87  Flow Rate, usefm  576.3  Flow Rate, disfm  548.2  Temperature, °F (measured at sample parts)  119  Temperature, °F (measured at monitoring thermocouple)  Bit/sef  502.0  Mini Dit/fir  17.36  NO2:  ppm  ppm @ 3% O <sub>2</sub> ib/fir (as NO <sub>2</sub> )  Li/day (as NO <sub>2</sub> )  Li/day (as NO <sub>2</sub> )  Li/disy  lb/Min Bitu	79.70 7.33 10,110 9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046	>1,400 5.15
HQQ, %  HQQ, %  Flow Rate, wrefin  Flow Rate, drefin  Flow Rate, drefin  S48.2  Temperature, *F (measured at sample ports)  Ity  Temperature, *F (measured at monitoring thermocouple)  Bit/scf  S02.0  MMIDit/fir  17.36  NO2:  ppm  ppm@ 3% O2  lb/hr (as NO2)  lb/hr (as NO2)  lb/MMICF (as NO2)  CO:  ppm  ppm@ 3% O2  lb/hr  Ib/day  lb/hin  Bit/day  lb/hin  Bit/hin	7.33 10,110 9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046	>1,400 5.15
Flow Rate, wrefin 576.3 Flow Rate, drefin 548.2 Temperature, *F (measured at sample parts) 119 Temperature, *F (measured at monitoring thermocouple) Blu/sef 502.0 Mini Blu/sir 17.36  NO2: ppm ppm @ 3% O2 lb/hr (as NO2) lb/hr (as NO2) lb/hiMBfu (as NO2) lb/hiMCF (as NO2)  CO: ppm ppm @ 3% O2 lb/hr lb/day lb/hiMBfu lb/miMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O2 lb/hr lb/hiMBfu lb/hiMBfu lb/hiMBfu	10,110 9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046	>1,400 5.15
Flow Rate, disclin  Temperature, *F (measured at sample parts)  Temperature, *F (measured at monitoring thermocouple)  Blu/scf  502.0  Mini Blu/sit  NO2:  ppm  ppm @ 3% O2  lb/hr (as NO2)  lb/hi (as NO2)  lb/hi (as NO2)  lb/hi (as NO2)  CO:  ppm  ppm @ 3% O2  lb/hir  lb/day  lb/him Blu  lb/min CF  CO: (defaulted to 20% of analyzer range)  ppm @ 3% O2  lb/him @ 3% O3	9,827 1,130 1,651 11.5 33.5 0.80 19.2 0.046	>1,400 5.15
Temperature, °F (measured at sample parts)  Temperature, °F (measured at monitoring thermocouple)  Bid/scf  NOz:  ppm  ppm @ 3% O;  lb/hr (as NO;)  lb/MMCF (as NO;)  lb/MMCF (as NO;)  lb/MMCF  CO:  ppm  ppm @ 3% O;  lb/hr  lb/day  lb/MMCF  CO: (defaulted to 20% of analyzer range)  ppm  ppm @ 3% O;  lb/hr  lb/day  lb/hMCF	1,130 1,651 11.5 33.5 0.80 19.2 0.046	>1,400 5.15
Temperature, °F (measured at monitoring thermocouple) Bin/scf 502.0 Mid Bin/scf 17.36  NO2: ppm ppm @ 3% O; lb/hr (as NO;) lb/hr (as NO;) lb/Midey (as NO;) lb/Mider (as NO;) lb/Mider (as NO;) lb/Mider (as NO;) lb/mider (as NO;) lb/hr lb/day lb/himBin lb/day lb/mider CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O; lb/hr lb/hr lb/day lb/Mider lb/day lb/Mider	1;651 11.5 33.5 0.80 19.2 0.046	5.15
Bit/sef  MMiBit/Fir  17.36  NOx: ppm ppm@3%O; lb/hr (as NO;) lb/hi (as NO;) lb/MMCF (as NO;) lb/MMICF (as NO;) lb/hr lb/hr lb/hr lb/hr lb/hr lb/hr lb/hmMCF  CO: (defaulted to 20% of analyzer range) ppm ppm@3%O; lb/hr lb/hmMCF	11.5 33.5 0.80 19.2 0.046	5.15
MMiDiu/Air 17.36  NO2: ppm ppm@3%O2 lb/hr (as NO2) lb/hiMBtu (as NO2)  CO: ppm ppm@3%O2 lb/ir	33.5 0.80 19.2 0.046	
NO2: ppm ppm @ 3% O; lb/br (as NO2) lb/day (as NO2) lb/MMCF (as NO2) lb/MMCF (as NO2)  CO: ppm ppm @ 3% O; lb/hr lb/day lb/MMCF  CO: (defaulted to 20% of nonlyzer range) ppm ppm @ 3% O; lb/br lb/MMCF	33.5 0.80 19.2 0.046	
ppm 93% O2 ib/br (as NO2) ib/day (as NO2) ib/MiME(a (as NO2) ib/MiMCF (as NO2)  CO: ppm ppm @ 3% O2 ib/lir ib/day ib/MiME(  CO: (defaulted to 20% of nonlyzer range) ppm @ 3% O2 ib/he ib/day ib/MiMCF	33.5 0.80 19.2 0.046	
ppm@ 3% O2 lb/br (as NO2) lb/day (as NO2) lb/MiNCF (as NO2) lb/MiNCF (as NO2)  CO: ppm ppm@ 3% O2 lb/lir lb/day lb/MiMBiu lb/MiMCF  CO: (defaulted to 20% of analyzer range) ppm @ 3% O2 lb/br lb/br lb/br lb/day lb/MiMBiu	33.5 0.80 19.2 0.046	
Ib/hr (as NO <sub>2</sub> ) Ib/day (as NO <sub>2</sub> ) Ib/MMEtu (as NO <sub>2</sub> ) Ib/MMCF (as NO <sub>2</sub> ) CO: ppm ppm @ 3% O <sub>2</sub> Ib/ir Ib/day Ib/MMCF CO: (defaulted to 20% of analyzer range) ppm @ 3% O <sub>2</sub> Ib/hr	33.5 0.80 19.2 0.046	
Ib/hr (as NO <sub>2</sub> ) Ill/day (as NO <sub>2</sub> ) Ib/MMBtu (as NO <sub>2</sub> ) Ib/MMCF (as NO <sub>2</sub> ) CO: ppm ppm @ 3% O <sub>2</sub> Ib/hr Ib/day Ib/MMCF CO: (defaulted to 20% of analyzer range) ppm @ 3% O <sub>2</sub> Ib/hr	0,80 19,2 0.046	
Ill/day (as NO <sub>2</sub> ) Ib/MMBtu (as NO <sub>2</sub> ) Ib/MMCF (as NO <sub>2</sub> ) CO: ppm ppm @ 3% O <sub>2</sub> Ib/ir Ib/day Ib/MMCF CO: (defaulted to 20% of analyzer range) ppm @ 3% O <sub>2</sub> Ib/hc	19,2 0.046	
Ib/MMBtv (as NO <sub>2</sub> ) Ib/MMCF (as NO <sub>2</sub> ) CO: ppm ppm @ 3% O <sub>2</sub> Ib/Ir Ib/day Ib/MMCF CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>2</sub> Ib/Ir Ib/Ir Ib/Ir Ib/Ir	0.046	
Ib/MMCF (as NO <sub>2</sub> )  CO: ppm ppm @ 3% O <sub>2</sub> Ib/lir Ib/lir Ib/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>2</sub> Ib/br Ib/day Ib/MMDIu		0.05
ppm (2) 3% O2 (b/hr (b/day (b/h)MB)to (b/MMCF)  CO: (defaulted to 20% of analyzer range) ppm (2) 3% O2 (b/ha) (b/h)MB)to (b/h)MB)to (b/h)MB)to (b/h)MB)to (b/h)MB)to		U.UJ
ppm ppm @ 3% O;  lb/lir  lb/day  lb/MMCF  CO: (defaulted to 20% of analyzer range)  ppm ppm @ 3% O;  lb/br  lb/day  lb/day  lb/day  lb/day		
ppm @ 3% O; lb/lir lb/day lb/MMBtu lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O; lb/br lb/bday lb/MMBtu	0.1	
lb/lir lb/day lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O2 lb/br lb/br lb/day lb/MMB1u	0.1	
III/Iay Ib/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O; Ib/hr Ib/day	0.2	
lb/MMCF  CO: (defaulted to 20% of analyzer range) ppm ppm @ 3% O <sub>3</sub> lb/br lb/day lb/MMBlu	0.003	17.16
lb/MMCF  CO: (defaulted to 20% of nonlyzer range) ppm ppm @ 3% O3 lb/hr lb/day lb/NIMBiu	0.08	
CO: (defaulted to 20% of numbyzer range) ppm ppm @ 3% O <sub>3</sub> lb/hr lb/day lb/NIMBIu	0.0002 0.10	0.2
ppm @ 3% O <sub>3</sub> lb/hr lb/day lb/NIMBIu	•	
lb/br lb/day lb/NINt Diu	20	
th/day ib/nint Diu	58.12	
เลา	0.85	17.16
	20.50	
Hydrocarbons:	0.05	0.2
Č134 ppm 483,000	< 1.00	
TGNN10, ppm (ns CH <sub>4</sub> ) 6,193	2.33	
TGNAIO, ppm @ 3% O; (as methane)	6.77	
TGNMO, ll/br (as CH <sub>1</sub> ) 8.4	0.06	1.00
TGNMO, IMAIM Biu (as CII,)	0.003	1.00
TGNMO, Ib/day (as Cli.) 202.3	1.42	
TGNMO, ppm (as hexane)	0.72	
TGNMO, ppm @ 3% O1 (as bexane)	1.20	<20 NSPS
TGNMO, lb/hr (as hexane)	0.05	-20 Hars
Destruction Eff. %		~D001
1b/AIAICP	99.31 1.61	>98%
	1.01	
Total Sulfur Campounds,		
Total Reduced Sulfer Inlet, ppm 91.07		
SO2 Exhaust, lb/hr (na SO2)	0.50	
SOx Exhaust, lb/day(as SO <sub>3</sub> )	11.90	
SOx Exhausi, lb/hihi B(v(as SO <sub>1</sub> )	0.029	
IWAINICF	15.08	
Notes:		

VRSD - Toland 2007

# 5.0 SUMMARY OF RESULTS

TABLE 5-2 GENERAL RESULTS VRSD Toland Flare June 26, 2007

•	INLET								-				MUS			
		First		Second		Third				First		Second	j	Third		
Parameter		Run		Run		Rua		Average	<u> </u>	Run		Rus		Run		Average
O <sub>10</sub> %		2.22		2.38		1.93		218		15.67		14.71		13.84		14.74
CO <sub>2</sub> %		36.5	_	36,0		36.8		36.4		4.73		5.59		6.36		5.56
N <sub>5</sub> %		10.4		10.1		9.2		9.9		79.6		79.7		79.B		79.7
H.Q. %		4.2		4.9		5.5		4.9		6.83		7.04		8.10		7.33
Flow Role, wselm		567.6		586.0		575.2		5763		10,469		9,169		10,694		10,110
Flow Rate, dscim		543.8		557.3		543.6		54B		11,205		9,754		B.522		9.827
Temperature, 'F		107		[20		130		119		1,102		1,100		1,189		1,130
Binkel		503		498		506		502		.,,,,,		*,,00		14103		•,150
MAIBtuffe		17.11		17.51		17.45		17.36								
NOn																
ppm										9.93		11.58		13.07		11.52
ppm @ 3% O,								•		34.0		33.5		33.1		33.5
Ib/ar (as NO <sub>2</sub> )		•								0.79		0.81		0.80		0.80
										0.046		0.016		0.016		0.046
ib/Aini Btu (as NO2)										0.040		0.048		U,U10		0.040
CO:																
hbm										0.16		0.03		0.01		0.07
ppm @ 3% O <sub>2</sub>										0.56		0.09		0.02		0,22
lb/br								_		0.008		0.001	<	0.001	<	0.003
ip/yiyi Bur									<	0.001	<	0.001	<	100.0	<	0.001
Hydrocarbons:																
Cli_ ppm		483,000		479,000		487,000		483,000	<	ı	<	1	<	1.	<	1
Ethane, ppm		3.06		3.53		3.30		3.30	<	t	<	1	<	l	<	ı
TGNMO, ppm (as CIL)		6,440		6,120		6,020		6,193		3.31		2.42		1.26		2.33
TCNMO, lb/hr (as CH.)		8.70		8,47		8.13		8,43		0.09		0.06		0.03		0.06
TGNAIO, ppm (as beanne)		1,073,3		1,020.0		1,003.3		1,032.2		0,55		0.40		0.21		0.39
TCNMO, ppm @ 3% O2 (os besant)		1,028.5		985.9		946.7		987.0		1.89		1.17		0.53		1.20
TGNNIO, Ib/br (as hexane)		7.79		7.59		7.2B		7.55		80.0		0.05		0.02		0.05
Destruction Eff. %						-				98.94		9931		99.68		9931
Soller Compounds:																
17 <sub>2</sub> 5, ppm	•	79.1		62.2		82.8		8137								
Carbonyl Sulfide, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Alethyl Alerenpian, ppm		2.62		2,85		2.92	<	2.8								
Ethyl Alerespian, ppm	<	0.2	⋖	0,2	<	0.3	<	0.2								
Distelly Suilide, ppm		5.86		6.51		6,60		6,33								
Carlion Disulfide, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Lopryyl mercapian, ppm		0.54		0.65		0.5B	<	0,6								
n-propyi mercaptan, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Dimethyl Disulfule,ppm	<	0,2	<	0.2	<	0.2	<	0.2								
Total Sulfar Compounds,																
Tetal Reduced Sulfur Inics, ppm		8B.L		92.3		929		91.1								
SOE Exhaust, lb/hr (as SO <sub>2</sub> ) <sup>(1)</sup>										0.476		0.510		0,502		0.496

The exhaust volume flow values are based on EPA Method 19.

# Ventura County Air Pollution Control District

### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 57.1, Particulate Matter Emissions From Fuel
Condition No. 57.1	Burning Equipment.

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Periodic Monitoring is not necessary to certify compliance with Rule 57.1. Too certify compliance, a reference to the District analysis based on EPA emission factors and a representative source test is sufficient. See attached Source Tests July 31, 2008 and June 26, 2007.

- 2. X Yes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. □Yes X No

  During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. □Yes X No

  During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

- 6. ☐ Yes X No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certificat	tion:		Francisco de la Companya de la Comp
	01/01/08 to 12/31/08		

# TABLE 5-1 SUMMARY OF RESULTS vs PERMIT CONDITIONS VRSD Toland Flare June 26, 2007

PARAMETER	INLET	EXHAUST	Peraiit Limit
03, %	2.18	14.74	
CO <sub>21</sub> %	36.43	5.56	
N <sub>11</sub> %	9.89	79.70	
B <sub>3</sub> 0, %	4.87	75.70 7.33	
Flow Raie, wsefm	576.3	10,110	
Flort Rate, disefin -	548.2		Julius 1 225
Temperature, °F (measured at somple ports)	119	9,827 1,130	inlet 1,667
Temperature, *F (measured at monitoring the	717 Processed		<b>-1.100</b>
Bin/sef	502.0	1,651	>1,400
hinidiukir	17.36		
	* * * * * *		
NOx:		•••	
ppm		11.5	
ppm @ 3% O <sub>3</sub>		33.5	-
lb/hr (ns NO <sub>2</sub> )		0.80	5.15
lh/day (as NO <sub>2</sub> )		19,2	
lb/MMBtu (as NO <sub>2</sub> )		0.046	0.05
IbMINCF (11 NO.)		24.28	
CO:			
ppm		0.1	
ppm @ 3% O <sub>3</sub>		0.2	
lb/hr		0.003	17.16
lb/day		80.0	*****
lb/MiMBtu		0.0002	0.2
Ib/MMCF		0.10	
CO: (defaulted to 20% of analyzer range)			
bbm		20	
ppm @ 3% O <sub>2</sub>		58.12	
lb/hr		0.85	17.12
lb/day		20.50	17.16
PVIVIDIA		20.50 0.05	^^
		V.U.	0.2
Hydrocarbons			
Cll4 ppm	483,000	< 1.00	
TGNAIO, ppm (as CH <sub>s</sub> )	6,193	2.33	
TGNAIO, ppm @3% O, (as methane)		6.77	
TGNMO, libr (as CH <sub>4</sub> )	8.4	0.06	1.00
TGNMO, IMMM Biu (as CII,)	•	0.003	
TGNMO, Ib/day (as CH <sub>4</sub> )	202.3	1.42	
TGNMO, ppm (ns hexane)		0.39	
TGNMO, ppm @3% O, (as bezane)		1.20	<20 NSPS
TGNMO, lb/hr (as hexane)		0.05	
Destruction Eff. %		99.31	>98%
1b/AINICF		1.61	
Tetal Sulfur Compounds,			
Total Reduced Sulfur Inlet, ppm	91.07		
SO2 Exhaust, lb/hr (as SO2)	71.07	0.50	
SOz Exhausi, ib/day(as SO <sub>2</sub> ) SOx Exhausi, ib/hihiBiv(as SO <sub>2</sub> ) ib/hihiCF		11.90 0.029 15.08	

The results in this table are the averages of all measurements.

TABLE 5-2 GENERAL RESULTS VRSD Toland Flare June 26, 2007

•	·			INL	<u>.T</u>				-				IAUS			
		First		Second		Third				First		Second		Third		•
Parameter		Run		Run		Rea		Average	<u> </u>	Run		Run		Run		Average
02. %		2.22		2.32		1.93		218		15.67		14.71		13.84		14.74
CO <sub>2</sub> %		36.5		36.0		36.8		364		4.73		5.59		6.36		5.56
		10.4	•	10.1		9.2		9.9		79.5		79.7		79.8		79.7
N <sub>2</sub> %		4.2		4.9		5.5		4.9		6.83		7.04		8.10		7.33
H <sub>2</sub> Q, %				4.9 586.0		575.2		4.5 576.3		10,469		9,169		10.694		10.110
Flow Rate, wscfm		567.6														9.827
Flow Rate, dscim		543,8		557,3		543.6 130		54B 119		11,205		9,754		B,522		1,130
Temperature, F		107		120						1,102		1,100		1,189		1,130
Blokef		503		498		506		502		•						
b[A]Btw/lir		17.11		17.51		17.45		17.36								
NOn																
ppst										9.92		11.58		13.07		11.52
ppm @ 3% O <sub>2</sub>									-	34.0		33.5		33.1		33,5
fb/ar (as NO <sub>2</sub> )										0.79		0.81		0.80		0.80
lb/ASM Bitu (as NO <sub>2</sub> )										0.046		0.046		0,046		0.046
CO:										0.16		0.03		0.01		0.07
ppm																
ppm @ 3% O₂										0,56		0.09		0.02		0,22
1b/hr									_	800,0		0.001	<	0,001	•	0,003
ib/aid Bru									<	0.001	<	0.001	<	160.0	<	100,0
Hydrocarbons:											•					
Cli. ppm		183,000		479,000		487,000		483,000	<		<	1	<	L,	<	1
Ethane, ppm		3.06		3.53		3.30		3.30	<	1	<	1	<	- 1	<	t
TGNMO, ppm (as CIL)		6,440		6.120		6,020		6,193		3.31		2.42		1.26		2.33
TGNMO, IMpr (as CHJ)		8,70		8,47		8.13		8.43		0.09		0.06		0.03		0.06
TGNAIO, ppm (as beanne)		1,073,3		1,020.0		1.003.3		1.032.2		0.55		0.40		0.21		0.39
TGNMO, pam@3% Oz (as hezane)		1,028.5		985.9		946.7		987,0		1.89		1.17		0.53		1.20
TGNAIO, th/hr (at hexane)		7.79		7.59		7.2B		7.55		80.0		0.05		0.02		0.05
Destruction EIL %		****		,,		7.52		1.20		91.94		9931		83.69		15.66
Salfur Compounds:																
13,5, ppm	•	79.1		81.2		82.8		81.37								
Carbonyl Sulfide, ppm	4	0.2	<	0.2	<	0.2	<	0.2								
Methyl Mercanian, ppm		2.62		2,85		2.92	<	2.8								
Ethyl Mercapian, ppm	<	0.2	<	0.2	-<	0.1	<	0.2								
Distelled Suifide, ppm		5.86		6.51		6,60		6,33								
Carbon Disulfide, ppm	<	0,2	<	0.2	<	0,2	4	0.2								
hoprayl merceptan, ppm		0.54		0.65		0.58	<	0,6								*
n-propy's mercapton, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Dimethyl Disulfido.ppm	•	0,2	< -	0.2	<	0.2	. <	0.2								
Total Sulfar Compounds,																
Tetal Reduced Salfur Inlet, ppm		88.l		92.3		919		91.1								
SOz Exhaust, lb/hr (as SO <sub>2</sub> ) <sup>1)</sup>										0.476		0.510		0,502		0,496

The exhaust volume flow values are based on EPA Method 19.

#### TABLE 5-1 SUMMARY OF TEST RESULTS

VRSD - Toland Landfill Microturbine July 31, 2008

PARAMETER	INLET	EXHAUST	PERMIT LIMIT
O <sub>2</sub> , %	2.12	18.20	
CO <sub>2</sub> , %	39.43	2.37	
N <sub>2</sub> , %	11.27	79.43	
H <sub>2</sub> O, %	•	3.78	
Flow Rate, wscim	_	1,134	
Flow Rate, dscfin	30.0	1,087	
Temperature, F	89	456.9	
Btu/scf	475	10015	
MMBtu/Hr	0.86		
Hydrocarbons:			
CH <sub>4</sub> ppm	469,333	< 1.00	
TGNMO, ppm (as CH <sub>4</sub> )	8,173	3,80	
TGNMO, lb/hr (as CH <sub>4</sub> )	0.61	0.01	
TGNMO, lb/MM Btu (as CH <sub>4</sub> )		0.012	
TGNMO, lb/day (as CH <sub>4</sub> )	14.6	0.25	
TGNMO, ppm (as hexane)		0.63	
TGNMO, ppm @ 3% O2 (as hexane)		4.26	20
TGNMO, lb/hr (as hexane)	•	0.01	20
Destruction Eff. %		98.28	98+
lb/M MCF		5.11	201
Total Sulfur Compounds,			
Total Reduced Sulfur Inlet, ppm	139.3		
SOx Exhaust, lb/hr (as SO <sub>2</sub> )	137.3	0.04	0.25
SOx Exhaust, lb/lay(as SO <sub>2</sub> )		1.00	0.25
SOx Exhaust, lb/MMBtu (as SO <sub>2</sub> )		0.049	

Notes

The results in this table are the averages of all measurements.

### 5.0 SUMMARY OF RESULTS (Continued)

TABLE 5-2 GENERAL RESULTS VRSD - Teland Landfill Microturbine July 31, 2008

				IN	LET	•						EX	HAL	IST		
		First		Second		Third				First		Second		Third		
Parameter		Run		Run		Run		Average		Run		Run		Run		Average
02, %		3,00		1.73		1.62		2,12		18.50		17.90		18.20		18,20
CO <sub>2</sub> , %		37.7		40.3		40.3		39.4		2.23		2.44		2.43		2.37
CH <sub>4</sub> , <sup>1</sup> %		44.8		48.0		48,0		46.9				2.94				2.31
N <sub>2</sub> , %		14.2		9.7		9.9		11.3		79,3		79,7		79.4		79.4
1120, %				2.1						3.71		3.50		4.14		3.78
Flow Rate, wscfm		•		•		-		•		3.71 1,155		3,30 1,112				
Flow Rate, dscfm		30		30		30		30		1,133		1,112		1,134 1,073		1,134 1,087
Temperature, "F		77.8		89.6		101.0		89.5		457		460		454		457
Btu/scf		467		479		479		475		457		400		424		437
MMBtu/Hr		0.84		0,86		0.86		0.86		-		-		-		
Hydrocarbons:																
CH <sub>4</sub> , ppm		448,000		480,000		480,000		469,333	<	1	<	1	<	1	<	ı
TGNMO, ppm (as CH <sub>4</sub> )		7,080		9,180		8,260		8,173		4.81		4.22		2.36		3.80
TGNMO, lb/hr (as CH <sub>4</sub> )		0.53		0.68		0.62		0.61		0.01		10.0		0.01		0.01
TGNMO, ppm (as hexane)		1,180.0		1,530,0		1,376.7		1,362.2		0.80		0.70		0,39		0.63
TGNMO, ppm @ 3% O2 (as hexane)		1,180.0		1,428.6		1,278,1		1,295.6		5.98		4.20		2.61		4,26
TGNMO, lb/hr (as hexane)		0.47		0.61		0.55		0.55		0.01		0.01		0.01		0.01
Destruction Eff. %										97.56		98.30		98.98		98.28
Sulfur Compounds:																
H <sub>2</sub> S, ppm		122		126		128		125,3								
Carbonyl Sulfide, ppm		0.34		0.34		0.37		0,35								
Methyl Mercaptan, ppm		4.16		4.37		4.44		4.32								
Ethyl Mercapian, ppm	<	0.2	<	0.2	<	0.2	<	0.2				•				
Dimethyl Sulfide, ppm		8.24		8.61		8.73		8.53								
Carbon Disulfide, ppm		0.22		0.23		0,23		0.23								
isoprpyl mercaptan, ppm		0.66		0.69		0.71		0.69								
n-propyl mercaptan, ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Dimethyl Disulfide,ppm	<	0.2	<	0,2	<	0.2	<	0.2								
Total Sulfur Compounds,				•												
Total Reduced Sulfur Inlet, ppm		136		140		142		139.3								
SOx Exhaust, lb/hr (ns SO <sub>2</sub> )										0.04		0.04		0.04		0.04

The exhaust volume flow values are based on EPA Method 1-4.

### Ventura County Air Pollution Control District

#### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:  Condition No. 64.B.1	Description: Rule 64.B.1 – Quarterly Micro-Turbine Fuel Sulfur Analysis.
ttach to this form any information of the state of the st	on specifically required to be submitted with the compliance nent or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

The landfill gas contains less than 50 grains of sulfur compounds per 100 cubic feet of gaseous fuel (788 ppmv). See attached Source Tests: 7/31/08 (125.3 ppm), 9/30/08 (1st Quarter; 122.3 ppm), 10/9/08 (2nd Quarter; 110 ppm & 120 ppm).

Attached is the most recent fuel Analysis of the Toland Landfill gas.

- 2. ★ Yes □No Are you currently in compliance as indicated by the <u>most recent</u> monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. □Yes X No

  During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. □Yes X No

  During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. ☐ Yes ★ No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

01/01/08 to 12/31/08

#### TABLE 5-1 SUMMARY OF TEST RESULTS

VRSD - Toland Landfill Microturbine July 31, 2008

PARAMETER	INLET	EXHAUST	PERMIT LIMIT
O <sub>2</sub> , %	2.12	18.20	
CO <sub>2</sub> , %	39.43	2.37	
N <sub>2</sub> , %	11.27	79.43	
H <sub>2</sub> O, %		3.78	
Flow Rate, wscim	<b>-</b> .	1,134	
Flow Rate, dscfin	30.0	1,087	
Temperature, °F	89	456.9	
Btu/sef	475	1000	
MMBtu/Hr	0.86		
Hydrocarbons:			•
CH <sub>4</sub> ppm	469,333	< 1.00	
TGNMO, ppm (as CH <sub>4</sub> )	8,173	3.80	
TGNMO, lb/hr (as CH <sub>4</sub> )	0.61	0.01	
TGNMO, lb/MM Btu (as CH <sub>4</sub> )	-	0.012	
TGNMO, lb/day (as CH <sub>4</sub> )	14.6	0.25	
TGNMO, ppm (as hexane)	* 1.0	0.63	
TGNMO, ppm @ 3% O <sub>2</sub> (as hexane)		4.26	20
TGNMO, lb/hr (as hexane)	•	0.01	20
Destruction Eff. %		98.28	98+
Ib/M MCF		5.11	70 T
		J.11	
Total Sulfur Compounds,			
Total Reduced Sulfur Inlet, ppm	139.3		
SOx Exhaust, lb/hr (as SO <sub>2</sub> )		0.04	0.25
SOx Exhaust, lb/day(as SO <sub>2</sub> )		1.00	
SOx Exhaust, lb/MMBtu (as SO <sub>2</sub> )		0.049	

Notes:

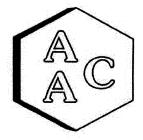
The results in this table are the averages of all measurements.

### 5.0 SUMMARY OF RESULTS (Continued)

TABLE 5-2 GENERAL RESULTS VRSD - Toland Landfill Microturbine July 31, 2008

				IN	LET							EX	HAU	IST		
•		First		Second		Third				First		Second		Third		,,,,
Parameter		Run		Run		Run		Average		Run		Run		Run		Averag
O <sub>2</sub> , %		3.00		1.73		1.62		2,12		18.50		17.90		18,20		18,20
CO <sub>2</sub> , %		37.7		40.3		40.3		39.4		2.23		2.44		2.43		2.37
CH <sub>4</sub> , %		44.8		48.0		48.0		46.9				•				-
N <sub>2</sub> , %		14.2		9.7		9.9		11.3		79,3		79.7		79.4		79,4
1120, %		-		-		•		•		3.71		3,50		4.14		3,78
Flow Rate, wscfm				_				-		1,155		1,112		1,134		1,134
Flow Rate, dscfm		30		30		30		30		1,076		1,112		1,073		1,087
Temperature, "F		77.8		89.6		101.0		89.5		457		460		454		457
Btu/scf		467		479		479		475		-		-		-		•
MMBtu/Hr		0.84		0,86		0.86		0.86		-		-		•		•
Hydrocarbons:																
CH <sub>4</sub> ppm	4-	48,000		480,000		480,000		469,333	<	1	<	1	<	1	<	1
TGNMO, ppm (as CH <sub>4</sub> )		7,080		9,180		8,260		8,173		4.81		4.22		2,36		3.80
TGNMO, lb/hr (as CH <sub>3</sub> )		0.53		0.68		0.62		0.61		0.01		0.01		0.01		0.01
TGNMO, ppm (as hexane)	ı	.180.0		1,530,0		1,376.7		1,362.2		0.80		0.70		0.39		0,63
TGNMO, ppm @ 3% Oz (as hexane)	ı	,180.0		1,428.6		1,278,1		1,295.6		5.98		4.20		2.61		4.26
TGNMO, lb/hr (as hexane)		0,47		0.61		0.55		0.55		0.01		0.01		0.01		0,01
Destruction Eff. %										97.56		98.30		98.98		98.28
Sulfur Compounds:																
H <sub>2</sub> S, ppm		122		126		128		125.3								
Carbonyl Sulfide, ppm		0,34		0.34		0.37		0,35								
Methyl Mercaptan, ppm	٠.	4.16		4.37		4.44		4.32								
Ethyl Mercaptan, ppm	<	0.2	<	0.2	<	0.2	<	0.2				•				
Dimethyl Sulfide, ppm	1	8.24		8.61		8.73		8.53								
Carbon Disulfide, ppm	1	0.22		0.23		0,23		0.23								
isoprpyl mercaptan, ppm	+	0.66		0.69		0.71		0.69								
n-propyl mercaptan, ppm		0.2	<	0.2	<	0.2	<	0.2								
Dimethyl Disulfide,ppm	<	0.2	<	0.2	<	0.2	<	0.2								
Fotal Sulfur Compounds,																
Total Reduced Sulfur Inlet, ppm		136		140		142		139.3								
SOx Exhaust, lb/hr (ns SO2)										0.04		0.04		0.04		0.04

The exhaust volume flow values are based on EPA Method 1-4.



### Atmospheric Analysis & Consulting, Inc.

#### LABORATORY ANALYSIS REPORT

**CLIENT** PROJECT NO. **MATRIX** UNITS

Ventura Regional Sanitation District

080611 **AIR PPMV** 

SAMPLING DATE

09/30/2008

**RECEIVING DATE ANALYSIS DATE** REPORT DATE

09/30/2008 10/01/2008

10/03/2008

### Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID AAC ID		Gas Bag 1 1-35398	POI	
Can Dilution Factor		.0	PQL	Reporting
Analyte	Result	Analysis Dil. Fac.	(RLxDF's)	Limit
Carbonyl Sulfide	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Hydrogen Sulfide	122,3	5000	50.0	0.01
Carbon Disulfide	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Sulfur Dioxide	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Methyl Mercaptan	5.33	100	1.00	0.01
Ethyl Mercaptan	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Thiophene	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Dimethyl Sulfide	2.70	100	1.00	0.01
Isopropyl Mercaptan	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
n-Propyl Mercaptan	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
tert-Butyl Mercaptan	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
iso-Butyl Mercaptan	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
sec-Butyl Mercaptan	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
n-Butyl Mercaptan	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
3-Methylthiophene	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Dimethyl Disulfide	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Diethyl Sulfide	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
2-Ethylthiophene	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
2,5-Dimethylthiophene	<pql< td=""><td>100</td><td>1,00</td><td>0.01</td></pql<>	100	1,00	0.01
Tetrahydrothiophene	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Diethyl disulfide	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Benzothiophene	<pql< td=""><td>100</td><td>1.00</td><td>0.01</td></pql<>	100	1.00	0.01
Total Unidentified Sulfurs as H <sub>2</sub> S		QL	1.00	0.01
Total Reduced Sulfurs as H <sub>2</sub> S	Service Control of the Control	130,3		0.01

All compound's concentrations expressed in terms of  $H_2S$ .

**Technical Director** 

### VENTURA REGIONAL SANITATION DISTRICT TOLAND LANDFILL QUARTERLY SULFUR MONITORING

DATE	10/9/2008	TIME	8:30 BY	DNG
INSTRU	MENT NUMBER	63449		
INSTRUM	MENT TYPE	SENSIDY	/NE AP-20S	
TUBE TY	PE	HYDROG	SEN SULPHIDE	
TUBE N	JMBER	SENSIDY	/NE TUBE NO. 120SB	
TUBE RA		0.75-300	PPM	
LOT NUM	MBER	584078		
MONUTO	DINIOLOGATION	DDEGG	DE OIDE OF ELABE DI OIMED	
MONITO	RING LOCATION	PRESSU	RE SIDE OF FLARE BLOWER	
READING	3 1			
PUMP S	TROKES	1		
READING		110		
H2S LEV	EL	110		
READING				
PUMP S		1		
READING		120		1
H2S LEV	EL	120		
[ <u></u>	·			
COMME	NTS			
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				* .

### Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 1 of 2

#### **Applicable Requirement or Part 70 Permit Condition**

a	nd/or Permit Condition  Condition No. 64.B.2		Description: Rule 64.B.2, Fuel Supplier's Certification.
		•	on specifically required to be submitted with the compliance nent or Part 70 permit condition.
1.		, ,	it you use for determining compliance. Indicate the frequency of test reference method, if applicable.
	•		gasoline and Diesel, with a sulfur content of less than 0.5% are on is supplied by the fuel manufacturer.
2.	<b>X</b> Yes □No		ntly in compliance as indicated by the <u>most recent</u> monitoring robservation as described above?
3.	Please indicate if	compliance duri	ng the reporting period was continuous or intermittent:
			measurements show compliance with the Part 70 permit condition easurements indicate a failure to meet the Part 70 permit condition
4.	□Yes × No	monitoring date "a departure fi monitoring un	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An excursion is defined as from an indicator or surrogate parameter range established for der the applicable requirement or Part 70 permit condition, any averaging period specified for averaging the results of the
5.	□Yes × No	monitoring da defined as "a c of an emission	me period covered by this compliance certification, does the ta indicate any exceedances, if applicable? An exceedance is ondition that is detected by monitoring that provides data in terms limitation or standard and that indicates that emissions (or opacity) in the applicable emission limitation or standard (or less than the

applicable standard in the case of percent reduction requirement) consistent with

any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

- 6. Days X No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:	
01/01/08 to 12/31/08	

80 643-7021

p. 2

01/15/2009 12:04

6264483985

DEWITT

PAGE 01

From: GILZ User To: LA -Mantebole Attachment E

Dalo: 1/2/2008 Time. 8:29:34 AM

Page 1 of 1

12/31/2008 13: 40 FAX 1 310 615 3478 CHEVRON ES 9CD LAB CHEVRON PRODUCTS COMPANY **EL SECUNDO** 

- CPL ECUSTON MOUITOOI

DF2USNSUW-8 Chevron Special ULSD2 (SS) (Winter)

Certificate of Analysis Sumpled: 12/31/2008 06:30:00 Batch Finished: 12/31/2008 12:41:07 Report Generated: 12/31/2008 12:41:16

Predictive Model Number: N/A Batch No: DSLCARB\_2001\_UM77 Versel: TANK952

Sumples: 1016669

Commence of the second				* 147	
				TO SE	Compared to the second
D4052	UPPER	API	Degrees API	35.5	MIN 30.0
D4052	LOWER	API	Degraes API	35.5	MIN 30.0
D1:000	UPPER.	ASIM Colur	<u> </u>	+0.5	REPORT
D1500	LOWER	ASTM Color		+0.5	REPORT
D4176	UPPER	Appearance/Condition		PASS	PASS.BC
D4176	Lower	Appenessed/Condition		PASS	PASS.BC
D7039	upper	Sulfar by XOS	וונקון	5	MAXBO
D703 <del>9</del>	MIDDLE	Sulfin by XOS	ppm (1	3	MAX 8.0
D7039	LOWER	Sulfur by XOS	ीक्षा भारत	,	MAX 8.0
<b>D86</b>	<b>AVITAGE</b>	Initial Boiling Point	ay .	364	REPORT
D86	AVERACIB	10%	•y	438	REPORT
Dac	AVERAGE	50%	Ť	548	REPORT
D86	AYERAGE	90%	· ·	616	540 - 640
D86	AVERAGE	Final Boiling Point	4	645	REPORT
DR6	average	Hecevery	vol %	98.8	REPORT
Des	AVERACIE	Residue	vol %	1.2	REPORT
D35	AVERACE	Lous	101 %	0.0	REPORT
D93	AVERACE	Pearly-Martons Flash	٠ <u>۴</u>	164	MIN 131
D130	average	Cu Strip Rating@122F@3lsr	•	17	
D445	AVERAGE	Kinematic Viscosity (240 C(Auto)	<b>c</b> St	3.428	IAIBAAIBACADAEJAAB
D\$949	AVERACE	Proc Point	•5	+,5	1.90 - 4.10
D\$773	AVERAGE	Cloud Point, Automatic	7	+11	MAX +20
726890	AVBRACE	Derivad Cetane Number	•	50.20	MAX +24
D5136	AVERACE	Total Avormites	weight %		MIN 49.6
D5136	AVERAGE	Polynuclear Aromasies	_	39,4	MAX 23.6
D4629	AVERAGE	Nitrogen	weight %	2.2	MAX 47
			weight %	0.0005	MAX 0.0715

I certify that above material mosts prescribed requirements.

Paul Morgan	12/3 1/2008 12:41:25
Company Representative	Date/Time

DAB 1/2/09 80-842 3-8",80-928 64-928 80-929 21-8

Original

Page: 1 Last Page of Report

A Chevron Company

Applicable Requirement or Part 70 Permit Condition Attachment

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#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 74.11.1, Large Water Heaters and Small
Condition No. 74.11.1	Boilers.

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

At this time there are no Large Water Heaters or Small Boilers at this location that fall under this rule.

- 2. X Yes \( \subseteq No \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - ➤ Continuous All monitoring measurements show compliance with the Part 70 permit condition

    Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. □Yes X No

  During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

- 6. ☐ Yes X No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:	
01/01/08 to 12/31/08	

### Ventura County Air Pollution Control District

#### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

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#### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number:  Condition No. 74.22	Description: Rule 74.22, Natural Gas-Fired Fan –Type Furnaces.	
Attach to this form any informati	on specifically required to be submitted with the compliance	

certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

At this time there are no Natural Gas-Fired Fan-Type Furnaces at this location that fall under this rule.

- 2. X Yes \( \subseteq \) No Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition

    ☐ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. Dering the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

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### Applicable Requirement or Part 70 Permit Condition Attachment

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#### **Applicable Requirement or Part 70 Permit Condition**

a	Citation, Including Atta		Description: Rule 74.1 – Abrasive Blasting.
	Condition No. 74.1		
		•	on specifically required to be submitted with the compliance ment or Part 70 permit condition.
1.			at you use for determining compliance. Indicate the frequency of test reference method, if applicable.
Ro	outine surveillance	and visual in	the Toland Landfill's Biosolids Drying Facility construction site. spections of the operation were conducted. Visible emission 400 of CCR was performed.
2.	X Yes □No		ntly in compliance as indicated by the <u>most recent</u> monitoring robservation as described above?
3.	Please indicate if	compliance duri	ng the reporting period was continuous or intermittent:
			measurements show compliance with the Part 70 permit condition easurements indicate a failure to meet the Part 70 permit condition
4.	□Yes × No	monitoring data "a departure f monitoring un	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An excursion is defined as from an indicator or surrogate parameter range established for ider the applicable requirement or Part 70 permit condition, an any averaging period specified for averaging the results of the
5.	□Yes × No	monitoring dat defined as "a c of an emission are greater that applicable stan	me period covered by this compliance certification, does the ta indicate any exceedances, if applicable? An exceedance is condition that is detected by monitoring that provides data in terms limitation or standard and that indicates that emissions (or opacity) in the applicable emission limitation or standard (or less than the dard in the case of percent reduction requirement) consistent with period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

6.	□Yes × No	During the time period covered by this compliance certification, do you have any
		other information or data that indicates that you are not in compliance?

- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance	e Certification:	
	01/01/08 to 12/31/08	

### Applicable Requirement or Part 70 Permit Condition Attachment

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#### Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 74.2 – Architectural Coatings.		
Condition No. 74.2			
A44-1-4-4-1-6			

Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Only coatings that are in compliance with rule 74.2 are used at this site.

- 2. X Yes \( \subseteq \text{No} \) Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - X Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. Designation During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

Form TVPF46/07-21-03 Page 2 of 2

- 6. Dering the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

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### Applicable Requirement or Part 70 Permit Condition Attachment

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### **Applicable Requirement or Part 70 Permit Condition**

	Citation, Including Atta nd/or Permit Condition		Description: Rule 74.4.D – Cut Back Asphalt.
C	Condition No. 74.4.D		
			ion specifically required to be submitted with the compliance ment or Part 70 permit condition.
1.	,		at you use for determining compliance. Indicate the frequency of test reference method, if applicable.
Ro	ad oils were not ap	oplied during 20	008.
2.	<b>X</b> Yes □ No		ently in compliance as indicated by the <u>most recent</u> monitoring or observation as described above?
3.	Please indicate if	compliance duri	ing the reporting period was continuous or intermittent:
			measurements show compliance with the Part 70 permit condition leasurements indicate a failure to meet the Part 70 permit condition
4.	□Yes × No	monitoring dat "a departure if monitoring ur	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An excursion is defined as from an indicator or surrogate parameter range established for ader the applicable requirement or Part 70 permit condition, an any averaging period specified for averaging the results of the
5.	□Yes × No	monitoring da defined as "a co of an emission are greater that applicable stan	me period covered by this compliance certification, does the ta indicate any exceedances, if applicable? An exceedance is condition that is detected by monitoring that provides data in terms limitation or standard and that indicates that emissions (or opacity) in the applicable emission limitation or standard (or less than the idard in the case of percent reduction requirement) consistent with period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

- 6. ☐ Yes ★ No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:	
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### Ventura County Air Pollution Control District

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Applicable Requirement or Part 70 Permit Condition Attachment

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#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number and/or Permit Condition Number:	Description: Rule 74.28 – Asphalt Roofing Operations.
Condition No. 74.28	•
Attach to this form any informatic certification in the applicable requirer	on specifically required to be submitted with the compliance ment or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Asphalt roofing operations were not conducted during 2008.

- 2. X Yes \( \subseteq \) No Are you currently in compliance as indicated by the most recent monitoring measurement or observation as described above?
- 3. Please indicate if compliance during the reporting period was continuous or intermittent:
  - Continuous All monitoring measurements show compliance with the Part 70 permit condition
     □ Intermittent One or more measurements indicate a failure to meet the Part 70 permit condition
- 4. □Yes X No During the time period covered by this compliance certification, does the monitoring data indicate any excursions, if applicable? An excursion is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
- 5. □Yes X No During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

- 6. □Yes × No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

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### Applicable Requirement or Part 70 Permit Condition Attachment

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#### Applicable Requirement or Part 70 Permit Condition

1	ntation, Including Attaind/or Permit Condition		Description: Rule 74.29 – Soil Decontamination Operations.
C	ondition No. 74.29		
			on specifically required to be submitted with the compliance nent or Part 70 permit condition.
1.			t you use for determining compliance. Indicate the frequency of test reference method, if applicable.
Soi	l decontamination	operations were	e not conducted during 2008.
2.	<b>X</b> Yes □No		ntly in compliance as indicated by the <u>most recent</u> monitoring robservation as described above?
3.	Please indicate if	compliance duri	ng the reporting period was continuous or intermittent:
	X Continuous −  ☐ Intermittent −	All monitoring One or more m	measurements show compliance with the Part 70 permit condition easurements indicate a failure to meet the Part 70 permit condition
4.	□Yes <b>×</b> No	monitoring data "a departure f monitoring un	me period covered by this compliance certification, does the a indicate any excursions, if applicable? An excursion is defined as from an indicator or surrogate parameter range established for der the applicable requirement or Part 70 permit condition, any averaging period specified for averaging the results of the
5.	□Yes × No	monitoring dat	me period covered by this compliance certification, does the ta indicate any exceedances, if applicable? An exceedance is ondition that is detected by monitoring that provides data in terms

of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with

any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

6.	□Yes × No	During the time period covered by this compliance certification, do you have any
		other information or data that indicates that you are not in compliance?

- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:		
Time I error Covered by Comphance Certification.		
01/01/08 to 12/31/08		

### Ventura County Air Pollution Control District

#### COMPLIANCE CERTIFICATION PERMIT FORM

Applicable Requirement or Part 70 Permit Condition Attachment

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Description: 40CFR.61.M - Part 61.145 National Emission

#### **Applicable Requirement or Part 70 Permit Condition**

Citation, Including Attachment Number

5. □Yes × No

and/or Permit Condition N	umber: Standard for Asbestos	nai Emission
40CFR Part 61, Subpart M		
	ny information specifically required to be submitted value cable requirement or Part 70 permit condition.	vith the compliance
	method(s) that you use for determining compliance. Indicate the source test reference method, if applicable.	cate the frequency of
Renovation or demolitic	on of asbestos containing materials was not conducted durin	g 2008.
	re you currently in compliance as indicated by the moeasurement or observation as described above?	st recent monitoring
3. Please indicate if con	npliance during the reporting period was continuous or inte	rmittent:
	Il monitoring measurements show compliance with the Part ne or more measurements indicate a failure to meet the Part	
m "a m	uring the time period covered by this compliance ce onitoring data indicate any excursions, if applicable? An example departure from an indicator or surrogate parameter report onitoring under the applicable requirement or Part 7 consistent with any averaging period specified for averaging onitoring."	accursion is defined as ange established for permit condition,

During the time period covered by this compliance certification, does the monitoring data indicate any exceedances, if applicable? An exceedance is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with

any averaging period specified for averaging the results of the monitoring."

Applicable Requirement or Part 70 Permit Condition Attachment

- 6. ☐ Yes ➤ No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
- 7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
- 8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:		
01/01/08 to 12/31/08		