

A Joint Powers Authority and Public Agency of the State of California 20111 Shay Road, Victorville, CA 92394 Telephone: (760) 246-8638

Fax: (760) 948-9897 E-mail: mail@vvwra.com

February 17, 2016

Ms. Lauren Fondahl U. S. EPA – Region IX 75 Hawthorne Street San Francisco, CA 94105-3901

RE: 2015 Annual Biosolids Monitoring Report

Dear Ms. Fondahl:

Enclosed is the annual biosolids monitoring report for calendar year 2015, as required by 40 CFR Part 503. Biosolids generated in 2015 at Victor Valley Wastewater Reclamation Authority (VVWRA) were stored on the plant site. In 2015, 1,029 dry metric tonnes were removed from the storage pad, American Organics, formerly Organic Express, Inc., a subsidiary of California Bio-Mass, Inc. hauled the biosolids to Pettigrew Farms in Lucerne Valley, California for land application.

Although there are currently no reporting requirements for the land application of Class A EQ biosolids, VVWRA does maintain records on the disposal of its Class A EQ biosolids. If Class A requirements are not met on a particular sample, the biosolids are held and retested until Class A requirements are met.

I certify under penalty of law that the vector attraction reduction requirements in 503.33(b)(7) and the pathogen reduction requirements in 503.32(a)(6) were met. These determinations have been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Sincerely,

Logan Olds General Manager

Enclosures

cc: SWRCB Discharge Monitoring Report Processing Center

Patty Z. Kouyoumdjian, Executive Officer, Lahontan Regional Water Quality Control Board



A Joint Powers Authority and Public Agency of the State of California **Administrative Offices** 

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#### ANNUAL BIOSOLIDS MONITORING REPORT - 2015

**GENERAL INFORMATION** 1.

> Name of Generator: Victor Valley Wastewater Reclamation Authority

20151 Shay Road, Victorville, CA 92394 Facility Address:

Contact Person: Logan Olds, General Manager

(760) 246-8638 Telephone:

**FACILITY INFORMATION** 2.

> Name: Victor Valley Wastewater Reclamation Authority

20151 Shay Road, Victorville, Ca 92394 Location:

(760) 246-8638 Telephone: NPDES Number CA 0102822

Influent Flow 10.72 MGD (2015 annual average daily flow rate)

3. **BIOSOLIDS INFORMATION** 

Treatment:

Biosolids at the Victor Valley Wastewater Reclamation Authority, which are generated as primary, waste activated sludge, trucked in anaerobically digestible materials (ADM), fats, oil and grease (FOG) are thickened by dissolved air flotation, anaerobically digested, conditioned in liquid sludge storage lagoons and/or pumped to dry in soil-cement lined solar drying beds, then removed from the beds and stored on site until they achieve Class A quality. In 2015, 1,029 dry metric tonnes were delivered to Pettigrew and Martinez Farms in Lucerne Valley California for land application.

**Quantity Generated** 

5,547 dry metric tonnes in 2015. Of the total production 1,685 dry metric tonnes of ADM and 432 dry metric tonnes of FOG were processed.

Quantity in Storage

12,818 dry metric tonnes as of December 31, 2015, including 172 dry metric tonnes in the storage lagoons, 2,217 dry metric tonnes class A in the solar drying beds, 4,640 dry metric tonnes class A in solar drying bed #4, and 6,818 dry metric tonnes on the dried sludge storage pad.

Monitoring & Frequency

Pathogen reduction is monitored by testing for Fecal Coliform, Helminth Ova and Enteric Virus. Each drying bed is monitored by sampling analysis, confirmed by receipt acceptable results or re-sampling before transferring to storage pad. This ensures biosolids have met 40 CFR 503 regulations before giving clearance to transfer to the facility storage pad where biosolids are clear for disposal. Biosolids that do not meet 40 CFR 503 regulations are stored in drying bed #4 where re-sampling is performed to give final clearance for disposal once regulations are

met.

Sampling and testing for 40 CFR 503 Table B pollutant concentrations

was performed to each individual drying bed before relocating to disposal staging area.

Once lab results are confirmed to have met 40 CFR 503 regulations biosolids are then moved to storage pad for disposal.

Annual samples were collected December 30<sup>th</sup>, 2015. Results are included within the attached laboratory results.

Sample Type Solar drying bed dewatered cake.

Quality Class A EQ in accord with 40 CFR 503.10(c)(1).

#### 4. LAND APPLICATION INFORMATION

Volume Land Applied = 1,029 dry metric tonnes.

VVWRA produces biosolids that generally meet Class A EQ requirements. Currently there are no rules or regulations that require record keeping or monitoring of Class A EQ materials once they leave the site. VVWRA does maintain records of off-site reuse, and VVWRA does conduct field audits of the service provider and disposal site when such reuse occurs.

#### DISPOSAL INFORMATION

Volume Disposed = 1,029 Dry Metric tonnes. All biosolids not disposed of during 2015 were held within the WWTP site on a concrete curbed pad designed for biosolids storage. American Organics, formerly Organic Express, Inc., a subsidiary of California Bio-Mass, Inc. hauled 1,029 metric tonnes to Martinez and Pettigrew Farms in Lucerne Valley, California for land application.

Month	Volume	<u>Hauler</u>	Disposal Site	<u>Purpose</u>
1/2015	79	Guillory Trucking	Martinez Farms Lucerne, CA 92356	Land Application
2/2015	496	Guillory Trucking	Martinez Farms Lucerne, CA 92356	Land Application
7/2015	411	Guillory Trucking	Pettigrew Farms Lucerne, CA 92356	Land Application
8/2015	43	Guillory Trucking	Pettigrew Farms Lucerne, CA 92356	Land Application

# 6. LABORATORY DATA See Table B Compliance Summary attached

#### Table B

		June	June	June	June	June	June	Sept	Sept	Sept	Sept	Sept	Sept			
	<i>DB</i> -drying bed <i>STP</i> - Storage Pad	DB	DB	DB	DB	DB	DB	STP	DB	DB	DB	DB	DB	Annual Average	Annual Maximum	Applicable 503 Criteria²
	DB#	#5	#6	#7	#8	#10	#11		#11	#5	#3	#2	#1			
1	Biosolids Pollut	ant Con	centratio	ons (mg	/kg) <sup>(1)</sup>											
	Arsenic	9.4	8.8	8	8.5	8.1	11	10	10	10	10	10	10	9	11	75
	Cadmium	2.8	1.5	1.7	1.5	1.4	1.8	5	5	5	5	5	5	3.1	5.0	85
	Copper	250	280	240	270	240	320	190	260	260	260	190	210	249	320	4,300
	Lead	13	13	24	12	10	15	10	14	10	12	10	10	13	24	840
	Mercury	0.71	0.66	0.88	0.49	1	0.41	0.76	0.92	0.31	0.49	0.2	1	0.7	1.2	57
	Molybdenum	16	15	13	15	13	16	10	12	11	13	10	11	13	16	75
	Nickel	20	20	16	17	16	21	11	13	13	15	10	12	15	21	420
	Selenium	7.2	6.2	5.9	6.5	5.9	7.4	10	10	10	10	10	10	8.0	10.0	100
	Zinc	680	770	660	760	640	880	550	770	700	770	580	610	701	880	7,500
	-1				B), Polluta s are rep		entration	ns. If mu	ıltiple sa	mples w	ere teste	ed in a gi	ven	,		
	-2				(1), Ceil		contratio	200								
	-2	pei 40	OFK 30	JS. 13(D)	(1), Cell	ing Con	centialic	0115								
2	<u>Pathogens</u>															
	Hel Ova <sup>(3)</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	PFU (4)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	MPN (5)	25	12	52	52	25	180	960	25.6	13.9	25.9	48.8	2.5	96.5	960	<1,000
	-3		nth Ova													
	-4	•		Ŭ	nteric V	•	Ū									
	-5	Most F	Probable	Numbe	er of Fed	al Colifo	orm per	gram of	total so	lids.						
3	Vector Attrac	ction R	<u>leducti</u>	<u>on</u>										ı		
	Solids Concentration	95	95	95	95	95	98	96	94	93	93	93	94	95	98	Solids>=90%
		90	90	90	90	90	90	90	94	93	93	93	94	90	90	3011u5>=90%
		*Vecto	or Attrac	tion Rec	duction (	VAR) is	achieve	d by dry	ing stat	oilized s	olids to	90% or	more			
		before	mixing	with oth	er mate	rials.			-							



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California Department of Public Health - Environmental Laboratory Accreditation Program Certificate # 2561

## **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-5 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

6/8/2015 11:22

Sample ID #

150608-14

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	9.4	PASS	
Cadmium	39	mg/kg	2.8	PASS	
Chromium, Total	1200	mg/kg	45	PASS	
Copper	1500	mg/kg	250	PASS	
Lead	300	mg/kg	13	PASS	
Mercury	17	mg/kg	0.71	PASS	
Molybdenum	18	mg/kg	16	PASS	
Nickel	420	mg/kg	20	PASS	
Selenium	36	mg/kg	7.2	PASS	
Zinc	2800	mg/kg	680	PASS	
Fecal Coliform	1000	MPN/g	25	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Babcock Labs Total Solids	Average - see below	%	95		
Bio Vir Lab Total Solids	Average - see below	%	94.2		
Average Total Solids	90	%	95	PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
Lab Review: Joseph Redrigues		
Operations Review:		



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## **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-6 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

6/8/2015 11:25

Sample ID #

150608-15

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	8.8	PASS	
Cadmium	39	mg/kg	1.5	PASS	
Chromium, Total	1200	mg/kg	50	PASS	
Copper	1500	mg/kg	280	PASS	
Lead	300	mg/kg	13	PASS	
Mercury	17	mg/kg	0.66	PASS	
Molybdenum	18	mg/kg	15	PASS	
Nickel	420	mg/kg	20	PASS	
Selenium	36	mg/kg	6.2	PASS	
Zinc	2800	mg/kg	770	PASS	
Fecal Coliform	1000	MPN/g	12	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Babcock Labs Total Solids	Average - see below	%	95		
Bio Vir Lab Total Solids	Average - see below	%	95.8		
Average Total Solids	90	%	95	PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
Lab Review: loneng Robignes		
Operations Review:		



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## **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-7 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

6/8/2015 11:19

Sample ID#

150608-16

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	8	PASS	
Cadmium	39	mg/kg	1.7	PASS	
Chromium, Total	1200	mg/kg	42	PASS	
Copper	1500	mg/kg	240	PASS	
Lead	300	mg/kg	24	PASS	
Mercury	17	mg/kg	0.88	PASS	
Molybdenum	18	mg/kg	13	PASS	
Nickel	420	mg/kg	16	PASS	
Selenium	36	mg/kg	5.9	PASS	
Zinc	2800	mg/kg	660	PASS	
Fecal Coliform	1000	MPN/g	52	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Babcock Labs Total Solids	Average - see below	%	95		
Bio Vir Lab Total Solids	Average - see below	%	94.7		
Average Total Solids	90	%	95	PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
ab Review: onenza Roa	Lecoth	
( Company of	)	
Operations Review:	11	



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### **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-8 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

6/8/2015 11:17

Sample ID #

150608-17

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	8.5	PASS	
Cadmium	39	mg/kg	1.5	PASS	
Chromium, Total	1200	mg/kg	45	PASS	
Copper	1500	mg/kg	270	PASS	
Lead	300	mg/kg	12	PASS	
Mercury	17	mg/kg	0.49	PASS	
Molybdenum	18	mg/kg	15	PASS	
Nickel	420	mg/kg	17	PASS	
Selenium	36	mg/kg	6.5	PASS	
Zinc	2800	mg/kg	760	PASS	
Fecal Coliform	1000	MPN/g	52	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Babcock Labs Total Solids	Average - see below	%	95		
Bio Vir Lab Total Solids	Average - see below	%	94.4		
Average Total Solids	90	%	95	PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

tion Recommended:	Acceptable for offsite disposal	Move to Storage Pad
b Review: (onemp / lo lings	ult	
8		
	) •	
perations Review:	<u></u>	



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## **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-10 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

6/8/2015 11:28

Sample ID #

150608-18

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	8.1	PASS	
Cadmium	39	mg/kg	1.4	PASS	
Chromium, Total	1200	mg/kg	41	PASS	
Copper	1500	mg/kg	240	PASS	
Lead	300	mg/kg	10	PASS	
Mercury	17	mg/kg	1	PASS	
Molybdenum	18	mg/kg	13	PASS	
Nickel	420	mg/kg	16	PASS	
Selenium	36	mg/kg	5.9	PASS	
Zinc	2800	mg/kg	640	PASS	
Fecal Coliform	1000	MPN/g	25	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Babcock Labs Total Solids	Average - see below	%	96		
Bio Vir Lab Total Solids	Average - see below	%	94.7		
Average Total Solids	90	%	95	PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
ab Review: Janeson & Rocher	ull	
( ) surge		
Operations Basics (		
Operations Review:		



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## **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-11 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

6/8/2015 11:30

Sample ID #

150608-19

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	11	PASS	Committee
Cadmium	39	mg/kg	1.8	PASS	
Chromium, Total	1200	mg/kg	58	PASS	
Copper	1500	mg/kg	320	PASS	<del> </del>
Lead	300	mg/kg	15	PASS	
Mercury	17	mg/kg	0.41	PASS	
Molybdenum	18	mg/kg	16	PASS	
Nickel	420	mg/kg	21	PASS	
Selenium	36	mg/kg	7.4	PASS	
Zinc	2800	mg/kg	880	PASS	
Fecal Coliform	1000	MPN/g	180	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Babcock Labs Total Solids	Average - see below	%	98	7,00	Not betetted
Bio Vir Lab Total Solids	Average - see below	%	98.6		
Average Total Solids	90	%		PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
		ove to storage Fau
Lab Review: Joney M. S. green	5	
Operations Review:	9	



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 1 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

#### Sample Identification

		P.4 .40111	moution			
Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitte	d By
B5F1070-01	150608-14 Staged From Drying Bed #4 - 5 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	06/08/15 11:22	Bobby Hesse	06/09/15 13:50	Courier (Nick Ottele)
B5F1070-02	150608-15 Staged From Drying Bed #4 - 6 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	06/08/15 11:25	Bobby Hesse	06/09/15 13:50	Courier (Nick Ottele)
B5F1070-03	150608-16 Staged From Drying Bed #4 - 7 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	06/08/15 11:19	Bobby Hesse	06/09/15 13:50	Courier (Nick Ottele)
B5F1070-04	150608-17 Staged From Drying Bed #4 - 8 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	06/08/15 11:17	Bobby Hesse	06/09/15 13:50	Courier (Nick Ottele)
B5F1070-05	150608-18 Staged From Drying Bed #4 - 10 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	06/08/15 11:28	Bobby Hesse	06/09/15 13:50	Courier (Nick Ottele)
B5F1070-06	150608-19 Staged From Drying Bed #4 - 11 (Class A) Biosolids (6 Grab-Comp) Composite	Sludge	06/08/15 11:30	Bobby Hesse	06/09/15 13:50	Courier (Nick Ottele)



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 2 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

# <u>Laboratory Reference Number</u> **B5F1070-01**

Sample Description

150608-14 Staged From Drying Bed #4 - 5 (Class A)

Matrix Sludge Sampled Date/Time 06/08/15 11:22

Received Date/Time 06/09/15 13:50

Biosolids (6 Grab-Comp)

Analyte(s)	Result	RDL	Units	Method A	nalysis Date	Analyst	Flag
Anions							
Nitrate as N	180	2.1	mg/kg dry	EPA 300.0	06/40/45 04:5		
Solids			g.n.g di y	EFA 300.0	06/12/15 01:3	37 ss	N_WEX
Total Solids							
Total Solids	95	0.10	%	SM 2540G	06/10/15 11:4	10 cdcs	
Nutrients							
Nitrite as N	4.0	1.1	mg/kg dry	CM 4500NO0	D 004445		** ***
Ammonia-Nitrogen	3900	530	mg/Kg* dry		B 06/11/15 16:3		N_WEX
Kjeldahl Nitrogen	46000	2600		SM4500NH3F			N_WEX
Total Phosphorus	30000	21	mg/kg dry	EPA 351.2	06/17/15 16:4		
·	20000	21	mg/Kg* dry	EPA 6020	06/17/15 17:1	8 MEL	
Metals and Metalloids; EPA S	SW846 Series						
Antimony	ND	5.0	mg/kg dry	FD4 0000			
Arsenic	9.4	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
3arium Sarium	270	10	•	EPA 6020	06/16/15 23:0	_	
3eryllium	1.7	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Cadmium	2.8	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	0 ERA	
Total Chromium	45	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	0 ERA	
Cobalt			mg/kg dry	EPA 6020	06/16/15 23:0	0 ERA	
Copper	4.6	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	0 ERA	
ead	250	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	0 ERA	
Mercury	13	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	0 ERA	
Molybdenum	0.71	0.42	mg/kg dry	EPA 7471A	06/16/15 16:5		
vickel	16	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
	20	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Selenium	7.2	5.0	mg/kg dry	EPA 6020	06/16/15 23:00		
Silver	4.0	1.0	mg/kg dry	EPA 6020			
hallium	ND	25	mg/kg dry	EPA 6020	06/16/15 23:00	-	
⁄anadium	93	5.0	mg/kg dry	EPA 6020	06/16/15 23:00	_	
linc	680	5.0	mg/kg dry		06/16/15 23:00		
		4.4	iliging dry	EPA 6020	06/16/15 23:00	) ERA	



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 3 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

# Laboratory Reference Number **B5F1070-02**

Sample Description

150608-15 Staged From Drying Bed #4 - 6 (Class A)

Matrix Sludge

Sampled Date/Time 06/08/15 11:25 Received Date/Time 06/09/15 13:50

Biosolids (6 Grab-Comp)

Analyte(s)	Result	RDL	Units	Method A	nalysis Date	Analyst	Flag
Anions							- Tug
Nitrate as N	86	2.1	mg/kg dry	EPA 300.0	06/12/15 01:4	18 ss	N_WEX
Solids							_
Total Solids	95	0.10	%	SM 2540G	06/10/15 11:4	lo cdcs	
Nutrients							
Nitrite as N	ND	1.0	mg/kg dry	SM 4E00NO	B 06/11/15 16:3		A1 14/51
Ammonia-Nitrogen	4600	520	mg/Kg* dry	SM4500NH3H			N_WEX
Kjeldahl Nitrogen	56000	2600	mg/kg dry	EPA 351.2			N_WEX
Total Phosphorus	33000	21	mg/Kg* dry	EPA 351.2 EPA 6020	06/17/15 16:4		
Metala and March II at a more of			girtg Gry	LFA 0020	06/17/15 17:2	1 MEL	
Metals and Metalloids; EPA S Antimony							
Arsenic	ND	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	2 ERA	
Arsenic Barlum	8.8	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	2 ERA	
	300	10	mg/kg dry	EPA 6020	06/16/15 23:0		
Beryllium	ND	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Cadmium	1.5	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Total Chromium	50	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		NRPDo
Cobalt	3.4	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		MINEDO
Copper	280	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
_ead	13	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Mercury	0.66	0.42	mg/kg dry	EPA 7471A	06/16/15 16:5		
Molybdenum	15	1.0	mg/kg dry	EPA 6020		_	NDDD.
Nickel	20	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		NRPD <sub>0</sub>
Selenium	6.2	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Silver	3.8	1.0	mg/kg dry		06/16/15 23:0		
Thallium	ND	25		EPA 6020	06/16/15 23:0:		NMint
/anadium	100	5.0		EPA 6020	06/16/15 23:0		
Zinc	770	5.0		EPA 6020	06/16/15 23:0		NRPDo
	770	3.0	mg/kg dry	EPA 6020	06/16/15 23:0	2 ERA	



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 4 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

# Laboratory Reference Number **B5F1070-03**

Sample Description

150608-16 Staged From Drying Bed #4 - 7 (Class A) Biosolids (6 Grab-Comp)

Matrix Sludge Sampled Date/Time 06/08/15 11:19 Received Date/Time 06/09/15 13:50

Analyte(s)	Result	RDL	Units	Method A	nalysis Date	Analyst	Flag
Anions	300						
Nitrate as N	64	2.1	mg/kg dry	EPA 300.0	06/12/15 01:5	59 ss	N_WEX
Solids							_
Total Solids	95	0.10	%	SM 2540G	06/10/15 11:4	10 cdcs	
Nutrients							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2	B 06/11/15 16:3	)F 00m	NI WEY
Ammonia-Nitrogen	4400	530	mg/Kg* dry	SM4500NH3F			N_WEX
Kjeldahl Nitrogen	45000	2600	mg/kg dry	EPA 351.2			N_WEX
Total Phosphorus	29000	21	mg/Kg* dry	EPA 6020	06/17/15 16:4 06/17/15 17:2		
Metals and Metalloids; EPA S	SW846 Series		0 0 7	-1710020	00/11/10 1/,2	S WILL	
Antimony	ND	5.0	malle de.				
Arsenic	8.0	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Barium	260	10	mg/kg dry	EPA 6020	06/16/15 23:0		
Beryilium	ND	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Cadmium	1.7	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Total Chromium	42	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Cobalt	2.9		mg/kg dry	EPA 6020	06/16/15 23:0	4 ERA	
Copper		1.0	mg/kg dry	EPA 6020	06/16/15 23:0	4 ERA	
Lead	240	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	4 ERA	
Mercury	24	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	4 ERA	
Molybdenum	0.88	0.42	mg/kg dry	EPA 7471A	06/16/15 16:5	4 ams	
Nickel	13	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	4 ERA	
Selenium	16	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	4 ERA	
	5.9	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	4 ERA	
Silver	4.1	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Thallium (a.e.)	ND	25	mg/kg dry	EPA 6020	06/16/15 23:0	•	
√anadium 	87	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Zinc	660	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 5 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

# Laboratory Reference Number **B5F1070-04**

Sample Description

150608-17 Staged From Drying Bed #4 - 8 (Class A)

Matrix Sludge

Sampled Date/Time 06/08/15 11:17

Received Date/Time 06/09/15 13:50

Biosolids (6 Grab-Comp)

Analyte(s)	Result	RDL	Units	Method An	alysis Date	Analyst	Flag
Anions					11110		
Nitrate as N	190	2.1	mg/kg dry	EPA 300.0	06/12/15 02:1	0 ss	N_WEX
Solids			3 3 - 7	2.77.000.0	00/12/10 02,1	0 33	IA_AAFV
Total Solids	95	0.10	0.4				
	33	0.10	%	SM 2540G	06/10/15 11:4	0 cdcs	
Nutrients							
Nitrite as N	ND	1.1	mg/kg dry	SM 4500NO2 E	R 06/11/15 16:2	5 aam	N_WEX
Ammonia-Nitrogen	4000	530	mg/Kg* dry	SM4500NH3H	06/11/15 15:2		N WEX
Kjeldahl Nitrogen	44000	2600	mg/kg dry	EPA 351.2	06/17/15 16:4		IA_AAFN
Total Phosphorus	26000	21	mg/Kg* dry	EPA 6020	06/17/15 17:2	-	
Metals and Metalloids; EPA S	W846 Series						
Antimony	ND	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	6 ERA	
Arsenic	8.5	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Barium	270	10	mg/kg dry	EPA 6020	06/16/15 23:0		
Beryllium	ND	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Cadmium	1.5	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Total Chromium	45	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Cobalt	2.7	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Copper	270	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
.ead	12	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Mercury	0.49	0.42	mg/kg dry	EPA 7471A	06/16/15 17:0	_	
Molybdenum	15	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Nickel	17	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Selenium	6.5	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Silver	4.1	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
hallium	ND	25	mg/kg dry	EPA 6020	06/16/15 23:0		
/anadium	98	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Zinc	760	5.0	mg/kg dry	EPA 6020	06/16/15 23:0		



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 6 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

# Laboratory Reference Number **B5F1070-05**

Sample Description

150608-18 Staged From Drying Bed #4 - 10 (Class

Matrix Sludge

Sampled Date/Time 06/08/15 11:28 Received Date/Time 06/09/15 13:50

A) Biosolids (6 Grab-Comp)

Analyte(s)	Result	RDL	Units	Method Ana	alysis Date	Analyst	Flag
Anions							
Nitrate as N	110	2.1	mg/kg dry	EPA 300.0	06/12/15 02:2	21 ss	N_WEX
Solids							_
Total Solids	96	0.10	%	SM 2540G	06/10/15 11:4	0 cdcs	
Nutrients							
Nitrite as N	ND	1.0	mg/kg dry	SM 4500NO2 E	06/11/15 16:2	E com	N MEN
Ammonia-Nitrogen	6000	520	mg/Kg* dry	SM4500NH3H	06/11/15 16:3		N_WEX
Kjeldahl Nitrogen	45000	2600	mg/kg dry	EPA 351.2	06/17/15 16:4		IA_AAEY
Total Phosphorus	31000	21	mg/Kg* dry	EPA 6020	06/17/15 16:4	_	
Metals and Metalloids; EPA SW8	346 Series						
Antimony	ND	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	8 ERA	
Arsenic	8.1	5.0	mg/kg dry	EPA 6020	06/16/15 23:0	_	
Barium	260	10	mg/kg dry	EPA 6020	06/16/15 23:0	_	
Beryllium	ND	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	_	
Cadmium	1.4	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Total Chromium	41	1.0	mg/kg dry	EPA 6020		_	
Cobalt	2.8	1.0	mg/kg dry	EPA 6020	06/16/15 23:0		
Copper	240	1.0	mg/kg dry	EPA 6020	06/16/15 23:0 06/16/15 23:0		
Lead	10	5.0	mg/kg dry	EPA 6020			
Mercury	1.0	0.42	mg/kg dry	EPA 7471A	06/16/15 23:0 06/16/15 17:0	_	
Molybdenum	13	1.0	mg/kg dry	EPA 6020		•	
Nickel	16	1.0	mg/kg dry	EPA 6020	06/16/15 23:0 06/16/15 23:0	_	
Selenium	5.9	5.0	mg/kg dry	EPA 6020		_	
Silver	4.3	1.0	mg/kg dry	EPA 6020	06/16/15 23:0	_	
Thallium	ND	25	mg/kg dry	EPA 6020	06/16/15 23:0 06/16/15 23:0		
Vanadium	85	5.0	mg/kg dry	EPA 6020			
Zinc	640	5.0	mg/kg dry	EPA 6020	06/16/15 23:0 06/16/15 23:0	_	



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Client Name: Victor Valley Reclamation Authority

Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 7 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

# Laboratory Reference Number **B5F1070-06**

Sample Description

150608-19 Staged From Drying Bed #4 - 11 (Class A) Biosolids (6 Grab-Comp)

<u>Matrix</u> Sludge

Sampled Date/Time 06/08/15 11:30

Received Date/Time 06/09/15 13:50

Analyte(s)	Result	RDL	Units	Method Ar	nalysis Date	Analyst	Flag
Anions				344	, , , , , , , , , , , , , , , , , , , ,	- u.u.yot	- lag
Nitrate as N	45	2.0	malka da.	<b>5</b> 54.000.0			
		2.0	mg/kg dry	EPA 300.0	06/12/15 02:3	32 ss	N_WEX
Solids Total Sell-In							
Total Solids	98	0.10	%	SM 2540G	06/10/15 11:4	0 cdcs	
Nutrients							
Nitrite as N	ND	1.0	mg/kg dry	SM 4500NO2	B 06/11/15 16:3	·	A4 14452
Ammonia-Nitrogen	2400	500	mg/Kg* dry	SM4500NH3H			N_WEX
Kjeldahl Nitrogen	48000	2500	mg/kg dry	EPA 351.2			N_WEX
Total Phosphorus	30000	20	mg/Kg* dry	EPA 6020	06/17/15 16:5		
Motolo and BA 4 H 11 2 mm a				LFA 0020	06/17/15 17:3	0 MEL	
Metals and Metalloids; EPA SV Antimony							
Arsenic	ND	5.0	mg/kg dry	EPA 6020	06/16/15 23:1	0 ERA	
Barium	11	5.0	mg/kg dry	EPA 6020	06/16/15 23:1	0 ERA	
	350	10	mg/kg dry	EPA 6020	06/16/15 23:1	0 ERA	
Beryllium Cadmium	ND	1.0	mg/kg dry	EPA 6020	06/16/15 23:1	_	
	1.8	1.0	mg/kg dry	EPA 6020	06/16/15 23:1		
Total Chromium	58	1.0	mg/kg dry	EPA 6020	06/16/15 23:1	_	
Cobalt	3.8	1.0	mg/kg dry	EPA 6020	06/16/15 23:1		
Copper	320	1.0	mg/kg dry	EPA 6020	06/16/15 23:1		
_ead	15	5.0	mg/kg dry	EPA 6020	06/16/15 23:10		
Mercury	0.41	0.20	mg/kg dry	EPA 7471A	06/16/15 17:1		
Molybdenum	16	1.0	mg/kg dry	EPA 6020	06/16/15 23:10		
Nickel	21	1.0	mg/kg dry	EPA 6020	06/16/15 23:10	-	
Selenium	7.4	5.0	mg/kg dry	EPA 6020	06/16/15 23:10		
Silver	4.2	1.0	mg/kg dry	EPA 6020	06/16/15 23:10		
Thallium	ND	25	mg/kg dry	EPA 6020		_	
/anadium	120	5.0	mg/kg dry	EPA 6020	06/16/15 23:10		
Zinc	880	5.0		EPA 6020	06/16/15 23:10 06/16/15 23:10		



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 8 of 8

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C

#### **Notes and Definitions**

N\_WEX Analyte determined on a 1:10 water extract from the sample.

Due to matrix interference, the matrix spike and/or matrix spike duplicate performed on this sample did not

meet laboratory acceptance criteria.

The RPD/precision of replicate analyses performed on this sample did not meet laboratory acceptance NRPDo

Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or ND:

above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit MDL: **Method Detection Limit** 

\*/": NELAP does not offer accreditation for this analyte/method/matrix combination

#### **Approval**

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

Digitally signed by: Cindy Waddell

DN: CN = Cindy Waddell C = US O = Babcock Laboratories OU = Project Manager Assistant

Date: 2015.06.22 14:09:58 -07'00'

cc:

mailing P.O. Box 432 Riverside, CA 92502-0432

Cindy Oaololle

location 6100 Quail Valley Court Riverside, CA 92507-0704

P 951 653 3351 F 951 653 1662 www.babcocklabs.com e-Short No Alias

NELAP no. 02101CA CA Elap no. 2698 EPA no. CA00102



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 22-Jun-2015

Analytical Report: Page 1 of 1

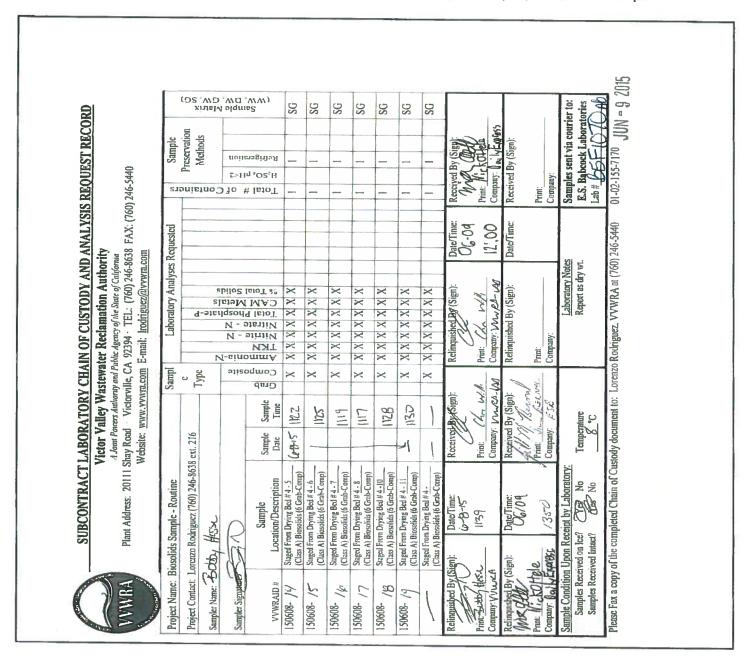
Project Name: VVWRA-Biosolids Sample - Ann

Project Number: Routine

Work Order Number: B5F1070

Received on Ice (Y/N): Yes

Temp: 8 °C







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**REPORT NO.:** 

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CLIENT:

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

Comment

VIC001

**CLIENT PO: N/A** 

#### **ASSAY RESULTS:**

Test: 1682 Salmonella MSRV

Method: EPA 1682

BioVir#	Sample ID	Site	Analyte	Result	Units
150968-001 1	50608-14	Drying Bed #4-5	Salmonella spp.	<0.3	MPN/4 g TS
Volume: 403.99	6/9/2015 9:32:00 AM Ma g Analysis Start i	CollectDate: 6/8/2015 trix: Biosoilds Date: 6/9/2015 alysis End: 6/12/2015	CollectTime: 11:22:00 AM Temp 1.4C Analysis Start Time: 1250		
150968-002 1	50608-15	Drying Bed #4-6	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Bobby ReceiveDate Volume: 411.08 Analyst: JTru	6/9/2015 9:32:00 AM Mal g Analysis Start [	CollectDate: 6/8/2015 Irix: Biosoilds Date: 6/9/2015 alysis End: 6/12/2015	CollectTime: 11:25:00 AM Temp 1.4C Analysis Start Time: 1250		
Comment					
150968-003 1	50608-16	Drying Bed #4-7	Salmonella spp.	<0.3	MPN/4 g TS
Volume: 375.64 Analyst: JTrus	6/9/2015 9:32:00 AM Mat g Analysis Start [	CollectDate: 6/8/2015 rix: Biosoilds Date: 6/9/2015 slysis End: 6/12/2015	CollectTime: 11:19:00 AM Temp 1.4C Analysis Start Time: 1250		
Comment					
150968-004 1	50608-17	Drying Bed #4-8	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Bobby ReceiveDate ( Volume: 418.16 Analyst: JTrus	6/9/2015 9:32:00 AM Mat g Analysis Start D	CollectDate: 6/8/2015 rix: Biosoilds Date: 6/9/2015 rlysis End: 6/12/2015	CollectTime: 11:17:00 AM Temp 1.4C Analysis Start Time: 1250		

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CLIENT:

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

**CLIENT PO: N/A** 

#### **ASSAY RESULTS:**

Test: 1682 Salmonella MSRV

Method: EPA 1682

BioVir#	Sample ID	Site	Analyte	Result	Units
150968-005	150608-18	Drying Bed #4-10	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Bobb ReceiveDate Volume: 418.16 Analyst: JTru	6/9/2015 9:32:00 AM	CollectDate: 6/8/2015 Matrix: Biosoilds Start Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:28:00 AM Temp 1.4C Analysis Start Time: 1250		
Comment					
150968-006	150608-19	Drying Bed #4-11	Salmonella spp.	<0.3	MPN/4 g TS
Collector: Bobb ReceiveDate Volume: 403.99 Analyst: JTru	6/9/2015 9:32:00 AM	CollectDate: 6/8/2015 Matrix: Biosoilds Start Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:30:00 AM Temp 1.4C Analysis Start Time: 1250		

Comment

Test: Coliform, Fecal

Method: EPA 1681

BioVir	BioVir # Sample I		Site	Analyte	Result	Units
150968-001	150608-14		Orying Bed #4-5	Coliform, Fecal	25	MPN/1 g Total Solids
Collector: Bot ReceiveDate Volume: 403, Analyst: JT	6/9/2015 9:		CollectDate: 6/8/2015 Matrix: Biosoilds lart Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:22:00 AM Temp 1.4C Analysis Start Time: 1250		
Comment						
150968-002	150608-15		Drying Bed #4-6	Coliform, Fecal	12	MPN/1 g Total Solids
Collector: Bob ReceiveDate Volume: 411. Analyst: JT	6/9/2015 9:		CollectDate: 6/8/2015 Matrix: Biosollds art Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:25:00 AM Temp 1.4C Analysis Start Time: 1250		

Comment

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CLIENT:

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**CLIENT NO** 

VIC001

CLIENT PO: N/A

#### **ASSAY RESULTS:**

Test: Coliform, Fecal

Method: EPA 1681

BioVir#	Sample ID	Site	Analyte	Result	Units
150968-003 1	50608-16	Drying Bed #4-7	Coliform, Fecal	52	MPN/1 g Total Solids
Collector: Bobby ReceiveDate ( Volume: 375.64 Analyst: JTrus Comment	6/9/2015 9:32:00 AM g Analysis S	CollectDate: 6/8/2015 Matrix: Biosoilds tart Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:19:00 AM Temp 1.4C Analysis Start Time: 1250		
150968-004 19	50608-17	Drying Bed #4-8	Coliform, Fecal	52	MPN/1 g Total Solids
Collector: Bobby ReceiveDate ( Volume: 418.16 ) Analyst: JTrus	6/9/2015 9:32:00 AM g Analysis S	CollectDate: 6/8/2015 Matrix: Biosoilds tart Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:17:00 AM Temp 1.4C Analysis Start Time: 1250		
Comment					
150968-005 15	50608-18	Drying Bed #4-10	Coliform, Fecal	25	MPN/1 g Total Solids
Collector: Bobby ReceiveDate 6 Volume: 418.16 ( Analyst: JTrus	6/9/2015 9:32:00 AM g Analysis S	CollectDate: 6/8/2015 Matrix: Biosoilds tart Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:28:00 AM Temp 1.4C Analysis Start Time: 1250		
Comment					
150968-006 15	50608-19	Drying Bed #4-11	Coliform, Fecal	1.8e2	MPN/1 g Total Solids
Collector: Bobby ReceiveDate 6 Volume: 403.99 ( Analyst: JTrus	6/9/2015 9:32:00 AM g Analysis Si	CollectDate: 6/8/2015 Matrix: Biosoilds fart Date: 6/9/2015 Analysis End: 6/12/2015	CollectTime: 11:30:00 AM Temp 1.4C Analysis Start Time: 1250		

Comment

Test: Enteric Virus Method: ASTM D 4994-89

BioVir# Sample ID Site Analyte Result Units

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Victorville, CA 92394

**CLIENT NO** 

Comment

VIC001

**CLIENT PO: N/A** 

#### **ASSAY RESULTS:**

**Test:** Enteric Virus

Method: ASTM D 4994-89

BioVir#	Sample ID	Site	Analyte	Result	Units
150968-001 150	0608-14	Drying Bed #4-5	Enteric Virus	<1	pfu/4 g TS
Collector: Bobby H ReceiveDate 6/9 Volume: 403.99 g Analyst: Valenti	9/2015 9:32:00 AM Analysis S	CollectDate: 6/8/2015 Matrix: Biosoilds start Date: 6/10/2015 Analysis End: 6/15/2015	CollectTime: 11:22:00 AM Temp 1.4C Analysis Start Time: 12:40		
	0608-15	Drying Bed #4-6	Enteric Virus	<1	pfu/4 g TS
Collector: Bobby H ReceiveDate 6/8 Volume: 411.08 g Analyst: Valenti	9/2015 9:32:00 AM Analysis S	CollectDate: 6/8/2015 Matrix: Biosoilds start Date: 6/10/2015 Analysis End: 6/15/2015	CollectTime: 11:25:00 AM Temp 1.4C Analysis Start Time: 12:40		
Collector: Bobby H	9/2015 9:32:00 AM Analysis S	Drying Bed #4-7  CollectDate: 6/8/2015  Matrix: Biosoilds tart Date: 6/10/2015  Analysis End: 6/15/2015	Enteric Virus  CollectTime: 11:19:00 AM  Temp 1.4C  Analysis Start Time: 12:40	<1	pfu/4 g TS
			ë		
	608-17	Drying Bed #4-8	Enteric Virus	<1	pfu/4 g TS
Volume: 418.16 g Analyst: Valentii	9/2015 9:32:00 AM Analysis S	CollectDate: 6/8/2015 Matrix: Biosoilds tart Date: 6/10/2015 Analysis End: 6/15/2015	CollectTime: 11:17:00 AM Temp 1.4C Analysis Start Time: 12:40		
Comment					
150968-005 150	608-18	Drying Bed #4-10	Enteric Virus	<1	pfu/4 g TS
Collector: Bobby He ReceiveDate 6/9 Volume: 418.16 g Analyst: Valentin	9/2015 9:32:00 AM Analysis S	CollectDate: 6/8/2015 Matrix: Biosoilds tart Date: 6/10/2015 Analysis End: 6/15/2015	CollectTime: 11:28:00 AM Temp 1.4C Analysis Start Time: 12:40		

150968

PAGE NO.:

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CLIENT:

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

**CLIENT PO: N/A** 

#### **ASSAY RESULTS:**

Test: **Enteric Virus**  Method: ASTM D 4994-89

BioVir# Sample ID Site Analyte Result Units 150968-006 150608-19 Drying Bed #4-11 **Enteric Virus** <1 pfu/4 g TS Collector: Bobby Hesse CollectDate: 6/8/2015 CollectTime: 11:30:00 AM ReceiveDate 6/9/2015 9:32:00 AM Matrix: Biosoilds Temp 1.4C

Volume: 403.99 g

Analysis Start Date: 6/10/2015

Analysis Start Time: 12:40

Analyst: ValentinaL

Analysis End: 6/15/2015

Comment

Test: **Helminth Ova** 

Method: EPA/625/R-92/013

BioVir	# Sample II	) Site	Analyte	Result	Units
150968-001	150608-14	Drying Bed #4-5	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Bo ReceiveDate Volume: 403 Analyst: S	6/9/2015 9:32:00	CollectDate: 6/8/2015 O AM Matrix: Biosoilds lysis Start Date: Analysis End: 7/9/2015	CollectTime: 11:22:00 AM Temp 1.4C Analysis Start Time:		
Comment					
150968-002	150608-15	Drying Bed #4-6	· Helminth Ova	<1	Helminth Ova

Total Solids

Collector: Bobby Hesse

CollectDate: 6/8/2015 ReceiveDate 6/9/2015 9:32:00 AM Matrix: Biosoilds

CollectTime: 11:25:00 AM

Temp 1.4C Analysis Start Time:

Volume: 411.08 g

Analysis Start Date:

Analyst: SMullaney

Analysis End: 7/9/2015

Comment

150968

PAGE NO.:

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CLIENT:

Victor Valley Wastewater Reclamation Authority

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Victorville, CA 92394

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#### **ASSAY RESULTS:**

Analyst: SMullaney

Comment

Test: Helminth Ova

Method: EPA/625/R-92/013

BioVir#	Sample ID	Site	Analyte	Result	Units
150968-003 150	0608-16	Drying Bed #4-7	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Bobby H ReceiveDate 6/ Volume: 375.64 g Analyst: SMulla	9/2015 9:32:00 AM Analysis St	CollectDate: 6/8/2015 Matrix: Biosoilds art Date: Analysis End: 7/9/2015	CollectTime: 11:19:00 AM Temp 1.4C Analysis Start Time:		
	9608-17	Drying Bed #4-8	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Bobby H ReceiveDate 6/9 Volume: 418.16 g Analyst: SMulla	9/2015 9:32:00 AM Analysis St	CollectDate: 6/8/2015 Matrix: Biosoilds art Date: Analysis End: 7/9/2015	CollectTime: 11:17:00 AM Temp 1.4C Analysis Start Time:		
Comment					
50968-005 150	608-18	Drying Bed #4-10	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Volume: 418.16 g Analyst: SMulla	9/2015 9:32:00 AM Analysis St	CollectDate: 6/8/2015 Matrix: Biosoilds art Date: Analysis End: 7/9/2015	CollectTime: 11:28:00 AM Temp 1.4C Analysis Start Time:		
Comment					
50968-006 150	608-19	Drying Bed #4-11	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Collector: Bobby Hi ReceiveDate 6/9 Volume: 403.99 g	9/2015 9:32:00 AM Analysis Sti		CollectTime: 11:30:00 AM Temp 1.4C Analysis Start Time:		

Analysis End: 7/9/2015

150968

PAGE NO.:

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CLIENT:

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Victorville, CA 92394

**CLIENT NO** 

Comment

VIC001

**CLIENT PO: N/A** 

#### **ASSAY RESULTS:**

Test: Total Solids

Method: SM2540B

BioVir#	Sample ID	Site	Analyte	Result	Units
150968-001 150	0608-14	Drying Bed #4-5	Total Solids (%)	94.2	% Total Solids
Volume: 403.99 g Analyst: MPiper	9/2015 9:32:00 AM Matrix: E Analysis Start Date:		CollectTime: 11:22:00 AM Temp 1.4C Analysis Start Time: 1441		
Comment					
	0608-15	Drying Bed #4-6	Total Solids (%)	95.8	% Total Solids
Collector: Bobby H ReceiveDate 6/9 Volume: 411.08 g Analyst: MPiper Comment	9/2015 9:32:00 AM Matrix: E Analysis Start Date:		CollectTime: 11:25:00 AM Temp 1.4C Analysis Start Time: 1441		
150968-003 150	608-16	Drying Bed #4-7	Total Solids (%)	94.7	% Total Solids
Collector: Bobby H ReceiveDate 6/9 Volume: 375.64 g Analyst: MPiper Comment	9/2015 9:32:00 AM Matrix: E Analysis Start Date:		CollectTime: 11:19:00 AM Temp 1.4C Analysis Start Time: 1441		
150968-004 150	0608-17	Drying Bed #4-8	Total Solids (%)	94.4	% Total Solids
Collector: Bobby H ReceiveDate 6/9 Volume: 418.16 g Analyst: MPiper	9/2015 9:32:00 AM Matrix: E Analysis Start Date:		CollectTime: 11:17:00 AM Temp 1.4C Analysis Start Time: 1441		
150968-005 150	0608-18	Desire Red #4.40	Takal Dati Lamb		
Collector: Bobby H	esse Colli 9/2015 9:32:00 AM Matrix: E Analysis Start Date:		Total Solids (%)  CollectTime: 11:28:00 AM  Temp 1.4C  Analysis Start Time: 1441	94.7	% Total Solids

150968

**PAGE NO.:** 

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**CLIENT:** 

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

**CLIENT PO: N/A** 

#### **ASSAY RESULTS:**

Test: **Total Solids** 

Method: SM2540B

BioVir#

Sample ID

Site

**Analyte** 

Result

Units

150968-006

150608-19

Drying Bed #4-11

Total Solids (%)

98.6

% Total Solids

Collector: Bobby Hesse

CollectDate: 6/8/2015 ReceiveDate 6/9/2015 9:32:00 AM Matrix: Biosoilds

CollectTime: 11:30:00 AM

Temp 1.4C

Volume: 403.99 g

Analysis Start Date: 6/9/2015

Analysis Start Time: 1441

Analyst:

**MPiper** 

Analysis End: 6/10/2015

Comment

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. B ioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.

MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records m ay be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

7/14/2015

Date:

Signature

Checked EMoran Quality



### BIOSOLIDS

### SAMPLE DATA SHEET

(Please fill out applicable eress, sign and return to BioVir with the sample )
Phone: 1-800-GIARDIA Fax: 707-747-1751 VIEB www.blovir.com
Note: Please print clearly using waterproof ink.

LAB USE ONLY Glen #VICOO I Date Rec'd 69 tempi 4 uc

COMPANY NAME &	ADDRESS.	to Rec	And As y DA	DATE OF SAMPLING 6-8-15				
Joill Shey	Rel. Victory	He, Co	160 246 B	TIN	TIME OF SAMPLING /122			
NAME OF SAMPLER	COMPANY NAME & ADDRESS:  Victor V/a lly washingto Recknition Address;  John Shay Rel. Victorio 110, Ca 92594  Contact Name Larents Rodingue 2 Tel 760 246 8618 124  NAME OF SAMPLER  Bubby Hosse					150608-14		
LOCATION OF SAME	LOCATION OF SAMPLING Dryng Balt 4-5					LE G GRAE	COMPOSITE	
TREATMENT CHARA	ACTERISTICS (Va.)			Dysbol 10	TAL SOLIDS	PERCENTAGE		
SAMPLI VOLUME (V	SAMPLI VOLUME (WET WEIGHT) ~ 300 grans				(ML	TO BEGIN ANALYSIS		
HOLD TIMES						RM.	wt:	
(Store and ship cold)	2 Weeks	1 Mon	th 6	Hours*	8 Hours"		403.990	
contiliums are not me saimonella - Languprelembly, within 2 lanelysis Samples in Reguli floris Part 50 Sample results will A holding time variation of the part of 24 hrs from CLASS B AEROBIC	EC) or 1681 (A.1). Class A composted, Class B serobically digested, and Class B analyzed valuin 6 hours of sample collection, 6 hour maximum transport and 2 hou handling procedures and holding time limits is critical to the production of valid dat contiliums are not met.  Salmonella - Language Extracted from EPA Salmonetts (Biosolids) Method 1 preferribly, within 2 hours of collection, if it is impossible to exemine samples within analysis. Samples must not be forcen. Sample analysis must begin within 6 hours Reguli thans Part 503. Note: Adherence to sample handling procedures and rolding Sample results will be considered invalid if these conditions are not met.  A holding time variance is allowed from your Regional Administrator under Section (up to 24 hrs from sampling for bacterial analysis)  I SAMPLE COMPRISED OF CLASS A COMPOSTED, CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED Signature					alyses should beging the second of the code of the cod	of Immediately, Lat <10°C until of Federat of valid data	
		ASSAY(S)	TO BE PERFOR	MED - (PLEASE	CHECK)			
ANAV YTIGAL STANDARD	ENTERIO VIRUS ASTM D 4894-89	The second secon	MINTH OVA 625/R-92/013	SALMONEL EPA 1682	Annual Control of the	AL COLIFORM EPA 1681	TOTAL SOLIDS EPA 1684	
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CLASS B'								
COMMENTS						tekm	ace	
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RELINQU	ISHED BY (SIGNED)		REO	IVED BY (SIGN	ED)	DATE	1 FIME 109.32	



## BIOSOLIDS

### SAMPLE DATA SHEET

(Please fill out applicable areas, sign in to return to BioVir with the sample.)

Phone 1-800-GIARDIA Fox 707-747 (751 WIEB: www.blovir.com.

Note: Please print clearly using waterproof tall.

LIMS # 968-2

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NAME OF SAMPLER	Bubby	4rse			SAMPLE ID	1500	608-	15
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(Store and ship	2 Weeks	l Monüi	6 H	onle,	8 Hou	'S'	4	11.08
onalysis Stamples of Regulations Part 50 Sample results will A holding time variety of the 74 has from the 74 has from CLAS & BAEROB BIOSO & IDS (FEC.)	rage Extracted from EP, nours of collection if it is must not be frozen Sampi. 3. Note. Adherence to sail be considered invalid if the tree is allowed from your AST HOLD TIME - a sampling for becterial APRISED OF CLASS A CICALLY OR ANAEROBIC AL COLLEDRM TEST OR	le analysis miss be mple handling proc esc conditions are Regional Administr anniysis) COMPOSTED, ALLLY DIGES (ED	adures a not rist alor und	er Section	time limits is 136.3(e). Ple	critical to the property to the	eduction o	fyeld data for dutails
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CL/\S\$ "B"								
COMMENTS								
RELINO	UISHER BY (GIGNED)		REC	EIVED BY	The second second	ne de	P/KS	1 11ME

SHIPPING ADDRESS BIOVIR LABORATORIES, INC., 685 S. ONE ROAD, UNIT 6, HEHICIA CALIFORNIA 94510



## BIOSOLIDS

### SAMPLE DATA SHEET

(Please fill out applicable areas sign and rature

to BioVir with the semple.)
Phone 1-800-GIARDIA Fex 707-747-1751 WIEB: www.blovir.com

LAB USE ONLY LIMS 11 968-3

OMPAUY NAME & ADD	DRESS .							
1 11 12 Ila	a introduction	, Recknition	, Ae	A. I DATE OF	SAMPLING	6-8-	15	
ontact Name Land	Kd. Victory	110, Ca 90	1898	TIME OF S	DATE OF SAMPLING: 6-8-15 TIME OF SAMPLING 1119			
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SHIPPING AL	DORESS BIOVIR	LABORATORIES,	114C 88	5 S' ONE ROAD, L	INIT B. DE	HICIA CALIF	ORNIA 84510	



## BIOSOLIOS SAMPLE DATA SHEET

(Please fill out approache areas, sign and rotum)
to Brovin with the sample )
Phone 1-800-GIARDIA Fex 707-747-1751 VIIEB: valve biovincom

LIMS II 908-4
Client #VICGO!
Dale flec's 6 915
Time Rec'a 09:32
terien 4 ne

REATHER NT CLIARACTERISTICS Was A-Anaryola.  SAMPLI VOLUME (VET WEIGHT) 300 grass 1010 LL SOLIDS PERCENTAGE:  WISTER INCLINES (Store and ship cold) 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 6 Hours 18 Hours 19 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 18 Hours 19 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 18 Hours 19 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 18 Hours 19 Hours 10 BEGIN ANALYSIS 2 Weeks 1 Month 18 Hours 19 Hour		Moto: Please	print clearly using	ng waterpro	of Ink.			
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HOLD TIMES (Store and ship) (1910)  Fined Colliforn - Language Extracted from EPA Focal Colliforn (Blosolids) Method 1881 (July 2006): For facal colliforn samples for seway is fixing (blosolids) only, the holding time is extended to the focus of the folkening sample types using either EPA Method 1000 (LTB seway) is fixing (blosolids) only, the holding time is extended to 24 hours for the folkening sample types using either EPA Method 1000 (LTB seway) is fixing (blosolids) only, the holding time is extended to 24 hours for the folkening sample types using either EPA Method 1000 (LTB EC) or 1081 (A-1): Class A composited, Class B arcolically digested, and Class B in anarobically digested, All other matrices should be analyzed value to 4 hours for analyzed value to 4 hours for sample processing block. Althoration to shought analyzed value to 1000 (LTB EV) or 1081 (A-1): Class A composited, Class B arcolical to the production of valid data. Sample results with a considered invalid it there confidered in the folkening sample collection. If it is trapositial to examine samples within 2 hours, carrightee nursing the analysis invalided in the Costs or Fodoral analysis. Samples must be individually and considered invalid it there is a manufactured analysis. Samples must be individually and considered invalid it there conditions will be considered invalid in these conditions are not not.  Analysis can be subjected in the force and sample analysis invalid begin vitin 6 fours unless otherwise specified in the Costs or Fodoral analysis. Sample results will be considered invalid in these conditions are not not.  Analysis can be subjected in the first these conditions are not not.  Analysis can be subjected in the first these conditions are not not.  As an analysis can be forced analysis.  Spraint in tender of the first folkening and the force analysis and the force analysis and the force analysis and the force analysis and the force analysis.  As any of the force analysis and the force analysis and the force analysis and the	TREATMENT CHARA	CTERISTICS Clas	A-Ana	ero by	2 YOTAL S	OLIDS PERC	ENTAGE:	
Focal Collons - Language Extracted from EPA Focal Coliform (Blosolids) Method 1681 (July 3:06): For local coliform samples for seway is hidge (blosolids) only, the holding time is extended to 24 hours for the following sample types using alther EPA Method 1680 (LTD control 14.1) (Lines A composited, Class B is erobically digested, and Class B 7 near-oligaty digested. All other matrices should be considered in the control of the following sample types using alther EPA Method 1680 (LTD control 14.1) (Lines A composited, Class B is erobically digested, and Class B 7 near-oligaty) digested. All other matrices should be considered in the control of valid (als. 3 Emple processing) below. Althoraca to sample analyzed valid in the folial state is critical to the production of valid (als. 3 Emple processing) below. Althoraca to sample confidence and below in the state is critical to the production of valid (als. 3 Emple processing) below. Althoraca to sample confidence in the considered invalid in the same confidence in the considered invalid if these conditions are not into analysis. Samples must not be considered invalid if these conditions are not into analysis. Samples are subject to the production of valid data. Alloting time variance is allowed from your Rectand Administrator under Section 136 3(a). Please refer to the Final Rule for doloid;  ASAN(S) TO BE PERFURMED - (PLEASE CHECKI)  ANALYTICAL ENTERIOR TRULE TIME:  ANALYTICAL ENTERIOR TRULE TIME:  ASAN(S) TO BE PERFURMED - (PLEASE CHECKI)  ANALYTICAL ENTERIOR TRULE TIME:  ASAN(S) TO BE PERFURMED - (PLEASE CHECKI)  ANALYTICAL ENTERIOR TRULE TIME:  ASAN(S) TO BE PERFURMED - (PLEASE CHECKI)  ANALYTICAL ENTERIOR TRULE TIME:  ASAN(S) TO BE PERFURMED - (PLEASE CHECKI)  ANALYTICAL ENTERIOR TRULE TIME:  ASAN(S) TO BE PERFURMED - (PLEASE CHE						(LUSTE	INCLUDED IN OIL	ER
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Febral Collionn - Language Extracted from EPA Febral Colliform (Blosolids) Method 1881 (July 2006): For lecal collionn samples for seway i slidgle (blosolids) only, the holding time is extended to 24 hours for this following sample types using either EPA Method 1880 (LTD EC) or 1081 (A-1): Class A composited, Class B seroblash), digested, and Class B reaerblically digested. All other matrixes should be carried to 1881 (LTD EC) or 1081 (A-1): Class A composited, Class B seroblash), digested, and Class B reaerblically digested. All other matrixes should be carried analyzed whilm 8 hours of sample collection, 6 hour maniferent fromsport and 2 hours for sample processing. Moto Adherence to sample handling procedures and holding time finites is critical to the production of valid data. Sample results will be considered invalid in these conditions are not intell.  Sammenollis - Language Extracted from EPA Satinonellis (Blosofids) Method 1682 (July 2008): Analyses should begin immodiately, preferably, within 2 hours, samplas must be minitationed at <10°C; until analysis. Samplas must be priviling 6 flores unless otherwises specified in the Conte of Federal Requisitions. Part 503, Note. Adherence to sample handling procedures and 1 defing time limits is critical to the production of valid data. Sampla is easitis will be considered hivalid if these conditions are not net. All others that will be considered hivalid if these conditions are not net. All others that will be considered hivalid if these conditions are not net. All others that will be considered hivalid if these conditions are not net. All others are refer to the Final Rule for dotails. A MINING B LANGUAGE and the series of the Final Rule for dotails. A MINING B LANGUAGE and the series of the Final Rule for dotails. A MINING B LANGUAGE and the series of the Final Rule for dotails. A MINING B LANGUAGE and the series of the Final Rule for dotails. A MINING B LANGUAGE and the series of the Final Rule for dotails. A MINING B LANGUAGE and the series of the Final R	(Store and ship	2 Weeks	) Month	6 H	ours* 8 H	ours"		418.6
ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)  ANALYTICAL ENTERIC VIRUS HELMINTH OVA SALMONELLA FECAL COLIFORM EPA 1684  CLASS TAT  CLASS TAT  CLASS TBT  RÉLINOUISHED FY (SIGNED)  RECEIVED BY (SIGNED)  RECEIVED BY (SIGNED)  RECEIVED BY (SIGNED)  TOTAL SOLIDS EPA 1684  EPA 1682  TOTAL SOLIDS EPA 1684  EPA 1685  TOTAL SOLIDS EPA 1684  TOTAL SOLIDS EPA 1684  EPA 1685  TIME  TIME	Sample results will A holding time viris Orc TO RUN P (up to 24 hrs from	be considered invalid to ince is allowed from your AST HOLD TIME - I sampling for bacter IPRISED OF CLASS	I these conditions our Regional Admi	pre not met	er Section 136 3(a). Nama	Please refer t	o the Final Rul	le-E-15
ASSAY(S) TO BE PERFORMED - (PLEASE CHECK)  ANALYTICAL STANDARD ASTM D 4994-89 EPA 625R-92/013 EPA 1682 EPA 1681  CLASS A X X X X X X X X X X X X X X X X X	BIOSHI INS (FEC.	AL COLIFORM TEST	ONLY)					SOLDERS P. C. State C. St.
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COMMENTS  RELINOUISHED BY (SIGNED)  RECEIVED BY (SIGNED)	The state of the s						A Part of the Control	
RECEIVED BY (SIGNED)	CLASS 'A'	X		X	×		X	X
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RELINOUISHED Y (SIGNED) REDEVED BY 15 OPT. 32	COMMENIS							
mc 69/15 09:32	ort Mo	incherung /sighen		REC	EIVED BY (SIGNED)		DATE	TIME
	RELINO	and the state of t				mel	eglic	J. 32
The second secon						)	MOIA CLAIM	amenta nesere



# BIOSOLIOS SAMPLE DATA SHEET

(Please fill out applicable areas, sign and return to BioVir with the sample )
Phone 1-800-GIARDIA Fax: 707-747-1761 VIEB: yaw blovir.com
Note: Please print clearly using waterproof link.

Date Regid 915
Time Regid 7:32
terift 1.406

COMPANY NAME & ADDRESS:

Victor Vally waskington Rectantion Androny

Jell Stay Rel. Victorille, Ca 92194

Contact Name Land Rado Set 182 181 160 216 8616 124 6-8-15 TIME OF SAMPLING 1128 150608-18 SAMPLE ID NAME OF SAMPLER: TYPE OF SAMPLE ( GRAB LOCATION OF SAMPLING. TOTAL SOLIDS PERCENTAGE: TREATHI-NT CHARACTERISTICS (MUST BE PIGLUDED III ORDER SAMPLE VOLUME (VIET WEIGHT). 300 0 TO BEGU ANYS HELMINTH OVA SALIAONELLA FECAL COLIFORM ENTERIC VIRUS HOLL! TIMES (Store and ship. 6 Hours' # Hours\* 1 Month 2 Weeks <u>(1)</u> \* Feral Colliona - Language Entracted from EPA Fecal Colliona (Blosolids) Method 1681 (July 2005): For legal collions samples for sewing : shulge (biosolids) only, the holding time is extended to 24 hours for the following sample types using either EPA Method 1640 (LTB EP) or 1981 (A 1): Class A composted, Class B serobloally digested, and Class B macrobically digested. All other matrices should be analyzed within 8 hours of sample collection, 6 hour maxinum transport and ? hours for sample processing. Note, Adherence to sample handling procedures and holding time limits is critical to the production of valid data. Sample results will be considered invalid if these conditions are not mat. Salmonella - Language Extracted from EPA Salmonella (Biosolids) Method 1682 (July 2006): Analyses should begin immediately. preferably, within 2 hours of collection. If it is impossible to examine camples within 2 hours, samples must be maintained at <10°C until analysis. Samples must not be frozen. Sample analysis must begin within 8 hours unless otherwise specified in the Code of Federal Reguli tions Part 503. Note: Adherence to sample handling procedures and Lolding time limits is critical to the production of valid data Sample results will be considered invalid if these condition, are not met. A holding time variance is allowed from your Regional Administrator under Section 136.3(e). Please refer to the Final Rule for details Print Name OK TO RUN PAST HOLD TIME . (up to 74 hrs from sampling for bacterial enalysis) 6-8-15 S IMPLE COMPRISED OF CLASS A COMPOSTED. Signature CLAST B AEROBICALLY OR ANAEROBICALLY DIGESTED BIOSH IDS (FECAL COLIFORM TEST ONLY) ASSAY(S) TO BE PERFORMED - (PLEASE CHECK) TOTAL SOLIDS FECAL COLIFORM HELMINTH OVA SALMONELLA ENTERIO VIRUS ANALYTICAL EI A 1684 EPA 1681 ASTM D 4994-89 EPA 1682 EPA 625/R-92/013 STANDARD CLASS 'A'

COMMENIS

CLASS B

RELINQUISHED BY SIZNED)	RECEIVED B # (SIGNED)	PATE	TIME
155	fr	16915	09:32
		Administration	



## BIOSOLIDS SAMPLE DATA SHEET

(Please fill out applicable ereas, si in a pretente to BinVir with the cample.)
Phone: 1-800-GIARDIA Fex. 207-147-1751. WIEB: www.blovir.com.
Note: Blease print clearly using waterproof into.

LIMS # 968-6 terant

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COMPANY NAME & A	DDRESS	by Recharti	. A	A 42.4	DATE OF SA	MAPLING (	2-8-1	5
Victor Val 2011 Shay Contact Warne Land	Rel. Victory	. 11e, Ca 9 2 1el. 760 2	16 861	18 12 Y	TIME OF SAMPLING 6-8-15  TIME OF SAMPLING 1/30  SAMPLE ID 150608-19			
HAME OF SAMPLER	Bubby	Hesse			SAMPLE ID	15	0608-	19
LOCATION OF SAMP		Balty-	1/		TYPE OF S	AMPLE 6	GRAB C	OMPOSITE
TREATHERT CHARA	CTERISTICS C/a	A-Ange	by E	Pariska	TOTAL SOL	IDS PERCE	NTAGE	
SAMPLI VOLUME (V		~ 300 gay				R Ba Tru a	CLADED IN OUT	En
		HELMINTH OVA	LEALING	NELLA	FECAL COI	JEDEM	w	t'
(Sinte and ship	ENTERIC VIRUS	I Month	-	ours.	Il Hon	NAME AND POST OFFICE ADDRESS OF THE PARTY.	10	3999
cokl)	2 Weeks	1 METERS			-		-(0	
solutions are until Salmonella - Lang preteribly, within 2 analysis Samples Regulations Part 50 Samples results will A holding time rant	ous of sample collections and holding time limited the limited from thous of collection of must not be foren. So 33. Note: Adherence to the considered finally lance is allowed from year NOSTHOLD TIME - in sampling for bacte.	EPA Salmonette (Blo il la Impossible to exer imple enalysis must b a sample handling pro if these conditions are our Regional Administ	osolids) i nine sem egin wilni cedures s	Vietl orl 16 ples within n 6 lears t und t akling er Gention Name	82 (July 2006 2 hours, sam miess otherw time limits is	i): Aut lyses : plus must be ise specified critical to the	should begin i maintained in the Code i production the Final Rule	immediatoly, at 410°C until of Federal of valid data
	MPRISED OF GLASS			Kris	11.11.	7		Onte
BIOSULIUS (FEC	ICALLY OR ANAERO AL COLIFORM TEST	BICALLY DIGESTED ONLY)	Sgna	iture				d Cl. Add Spilled in display a warding of parameter
	The latter was no want to harry the a P processed to	ASSAY(S) TO HE	ERFUR	NED - (PL	EASE CHEC	Kı		
ANALYTICAL STAIDARD	ENTERIC VIRU ASTM D 4994-8	S HELMINTH			ONELLA A 1682	FECAL C	OLIFORM 1681	TOTAL SOLIDS
CIVS2 'A'	X	×	/		×		<u> </u>	X_
CLASS 'B								
COMMENTS								

RELINQUISHED BY (SIGNED)	RECEIVED BY (SIGNED)	DATE	TIME
PLE PROPERTY OF THE PARTY OF TH	W-	6915	19:32
	THE PARTY OF THE P	CHIOLA CALIFORN	NIA BURAD



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Plant Address: 20111 Shay Road · Victorville, CA 92394 · TEL: (760) 246-8638 FAX: (760) 246-5440

Website: www.vvwra.com E-mail: mail@vvwra.com

California Department of Public Health - Environmental Laboratory Accreditation Program Certificate # 2561

## **Biosolids Evaluation Report**

Sample Location

Storage Pad (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

9/28/2015 7:44

Sample ID #

150928-11

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	<10	PASS	Not Detected*
Cadmium	39	mg/kg	<5	PASS	Not Detected*
Chromium, Total	1200	mg/kg	34	PASS	
Copper	1500	mg/kg	190	PASS	
Lead	300	mg/kg	<10	PASS	Not Detected*
Mercury	17	mg/kg	0.76	PASS	
Molybdenum	18	mg/kg	10	PASS	
Nickel	420	mg/kg	11	PASS	
Selenium	36	mg/kg	10	PASS	
Zinc	2800	mg/kg	550	PASS	
Fecal Coliform	1000	MPN/g	960	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	9.7	FAIL	Not Detected
Bio Vir Lab Total Solids	90	%	96	PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Not acceptable for offsite disposal	
Lab Review: Joseph R. S.	ijan,	
Operations Review:	40	



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### **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-1 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

9/28/2015 7:16

Sample ID #

150928-12

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	<10	PASS	Not Detected*
Cadmium	39	mg/kg	<5	PASS	Not Detected*
Chromium, Total	1200	mg/kg	33	PASS	Not Detected
Copper	1500	mg/kg	210	PASS	
Lead	300	mg/kg	<10	PASS	Not Detected*
Mercury	17	mg/kg	1	PASS	Not Detected
Molybdenum	18	mg/kg	11	PASS	
Nickel	420	mg/kg	12	PASS	
Selenium	36	mg/kg	<10	PASS	Not Detected*
Zinc	2800	mg/kg	610	PASS	Not betetted
Fecal Coliform	1000	MPN/g	2.5	PASS	
Enteric Viruses	1	PFU/4 g	<1		Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Bio Vir Lab Total Solids	90	%	94	PASS	Not betetted

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
ab Review: Joney Rock	yours	
Operations Review:	19	
- 3		



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### **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-2 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

9/28/2015 7:17

Sample ID #

150928-13

Sampled By:

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	<10	PASS	Not Detected*
Cadmium	39	mg/kg	<5	PASS	Not Detected*
Chromium, Total	1200	mg/kg	29	PASS	
Copper	1500	mg/kg	190	PASS	
Lead	300	mg/kg	<10	PASS	Not Detected*
Mercury	17	mg/kg	<0.2	PASS	Not Detected*
Molybdenum	18	mg/kg	<10	PASS	Not Detected*
Nickel	420	mg/kg	10	PASS	
Selenium	36	mg/kg	<10	PASS	Not Detected*
Zinc	2800	mg/kg	580	PASS	
Fecal Coliform	1000	MPN/g	48.8	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	2.7	PASS	
Bio Vir Lab Total Solids	90	%		PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
ab Review: menge /lody	122	
Operations Review:	()	



# Victor Valley Wastewater Reclamation Authority

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California Department of Public Health - Environmental Laboratory Accreditation Program Certificate # 2561

# **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-3 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

9/28/2015 7:15

Sample ID #

150928-14

Sampled By:

**Bobby Hesse** 

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	<10	PASS	Not Detected*
Cadmium	39	mg/kg	<5	PASS	Not Detected*
Chromium, Total	1200	mg/kg	45	PASS	
Copper	1500	mg/kg	260	PASS	
Lead	300	mg/kg	12	PASS	
Mercury	17	mg/kg	0.49	PASS	
Molybdenum	18	mg/kg	13	PASS	
Nickel	420	mg/kg	15	PASS	
Selenium	36	mg/kg	<10	PASS	Not Detected*
Zinc	2800	mg/kg	770	PASS	
Fecal Coliform	1000	MPN/g	25.9	PASS	
Enteric Viruses	1	PFU/4 g	<1		Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	39.6	FAIL	Bottotto
Bio Vir Lab Total Solids	90	%		PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Not acceptable for offsite disposal	
Lab Review: (nemy Me	lynd	
Operations Review:	a de	



# Victor Valley Wastewater Reclamation Authority

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California Department of Public Health - Environmental Laboratory Accreditation Program Certificate # 2561

## **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-5 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

9/28/2015 7:20

Sample ID #

150928-15

Sampled By:

**Bobby Hesse** 

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	<10	PASS	Not Detected*
Cadmium	39	mg/kg	<5	PASS	Not Detected*
Chromium, Total	1200	mg/kg	32	PASS	
Copper	1500	mg/kg	260	PASS	
Lead	300	mg/kg	10	PASS	
Mercury	17	mg/kg	0.31	PASS	
Molybdenum	18	mg/kg	11	PASS	
Nickel	420	mg/kg	13	PASS	
Selenium	36	mg/kg	<10	PASS	Not Detected*
Zinc	2800	mg/kg	700	PASS	
Fecal Coliform	1000	MPN/g	13.9	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	<0.3	PASS	Not Detected*
Bio Vir Lab Total Solids	90	%	93	PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Acceptable for offsite disposal	Move to Storage Pad
/ 0 ,		
Lab Review: Joney Roch, gue	<del></del>	
Operations Review:		



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# **Biosolids Evaluation Report**

Sample Location

Stage From Drying Bed #4-11 (Class A) Biosolids (6 Grab-Comp) Composite

Sample Date

9/28/2015 7:29

Sample ID#

150928-16

Sampled By:

**Bobby Hesse** 

Pollutant	Requirement/Limit	Units	Sample Results	Result	Comments
Arsenic	41	mg/kg	<10	PASS	Not Detected*
Cadmium	39	mg/kg	<5	PASS	Not Detected*
Chromium, Total	1200	mg/kg	37	PASS	
Copper	1500	mg/kg	260	PASS	
Lead	300	mg/kg	14	PASS	
Mercury	17	mg/kg	0.92	PASS	
Molybdenum	18	mg/kg	12	PASS	
Nickel	420	mg/kg	13	PASS	
Selenium	36	mg/kg	<10	PASS	Not Detected*
Zinc	2800	mg/kg	770	PASS	
Fecal Coliform	1000	MPN/g	25.6	PASS	
Enteric Viruses	1	PFU/4 g	<1	PASS	Not Detected*
Helminth Ova	1	ova/4 g	<1	PASS	Not Detected*
Salmonella	3	MPN/4 g	3.4	FAIL	
Bio Vir Lab Total Solids	90	%		PASS	

<sup>\*</sup>Constituent Not Detected in this sample, value recorded is the detection limit of the test.

Action Recommended:	Not acceptable for offsite disposal			
Lab Review: (many Roda)	fully			
Operations Review:				



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 1 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B5|2920

Received on Ice (Y/N): Yes Temp: 12 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

### Sample Identification

Lab Sample #	Client Sample ID	<u>Matrix</u>	Date Sampled	<u>By</u>	Date Submitte	ed By
B5I2920-01	150928-11 Storage Pad Biosolids (6 Grab-Composite) Composite	Solid	09/28/15 07:44	Bobby Hesse	09/28/15 13:23	Courier (Hector N.)DE
B5I2920-02	150928-11 Storage Pad Biosolids (6 Grab-Composite) Composite	Solid	09/28/15 07:44	Bobby Hesse	09/28/15 13:23	Courier (Hector N.)DE
B5l2920-03	150928-12 Staged From Drying Bed #4-1 Class 1 Biosolids (6 Grab-Composite) Composite	Solid	09/28/15 07:16	Bobby Hesse	09/28/15 13:23	Courier (Hector N.)DE
B5l2920-04	150928-13 Staged From Drying Bed #4-2 Class 1 Biosolids (6 Grab-Composite) Composite	Solid	09/28/15 07:17	Bobby Hesse	09/28/15 13:23	Courier (Hector N.)DE
B5l2920-05	150928-14 Staged From Drying Bed #4-3 Class 1 Biosolids (6 Grab-Composite) Composite	Solid	09/28/15 07:15	Bobby Hesse	09/28/15 13:23	Courier (Hector N.)DE
B5I2920-06	150928-15 Staged From Drying Bed #4-5 Class 1 Biosolids (6 Grab-Composite) Composite	Solid	09/28/15 07:20	Bobby Hesse	09/28/15 13:23	Courier (Hector N.)DE
B5I2920-07	150928-16 Staged From Drying Bed #4-11 Class 1 Biosolids (6 Grab-Composite) Composite	Solid	09/28/15 07:29	Bobby Hesse	09/28/15 13:23	Courier (Hector N.)DE



Contact: Lorenzo Rodriguez

Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 2 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B5l2920

Received on Ice (Y/N): Yes

Temp: 12 °C

### Laboratory Reference Number

### B5|2920-01

Sample Description

150928-11 Storage Pad Biosolids (6

Grab-Composite)

Matrix Solid Sampled Date/Time 09/28/15 07:44

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Anions	<del>-</del>			3			
Nitrate as N	140	2.0	mg/kg	EPA 300.0	09/29/15 04:1	0 ara	N_WEX
Nutrients							
Nitrite as N	10	1.0	mg/kg	SM 4500N	O2 B 10/01/15 00:1	3 jma	N_WEX
Ammonia-Nitrogen	2700	200	mg/Kg*	SM4500NH		-	N_WEX
Kjeldahl Nitrogen	42000	2000	mg/kg	EPA 351.2	10/05/15 21:4	1000	NRPDo
Total Phosphorus	22000	40	mg/Kg*	EPA 6020	09/30/15 17:3	-	
Metals and Metalloids; EPA S	SW846 Series						
Antimony	ND	10	mg/kg	EPA 6020	09/29/15 21:3	2 ERA	
Arsenic	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Barium	190	10	mg/kg	EPA 6020	09/29/15 21:3	-	
Beryllium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3	_	
Cadmium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3		
Total Chromium	34	10	mg/kg	EPA 6020	09/29/15 21:3		
Cobalt	ND	10	mg/kg	EPA 6020	09/29/15 21:3	_	
Copper	190	10	mg/kg	EPA 6020	09/29/15 21:3		
Lead	ND	10	mg/kg	EPA 6020	09/29/15 21:3:	_	
Mercury	0.76	0.50	mg/kg	EPA 7471A			
Molybdenum	10	10	mg/kg	EPA 6020	09/29/15 21:3	-	
Nickel	11	10	mg/kg	EPA 6020	09/29/15 21:3:	_	
Selenium	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Silver	ND	10	mg/kg	EPA 6020	09/29/15 21:3	_	
Thallium	ND	50	mg/kg	EPA 6020	09/29/15 21:3:		
Vanadium	71	10	mg/kg	EPA 6020	09/29/15 21:3:		
Zinc	550	10	mg/kg	EPA 6020	09/29/15 21:32		



Contact: Lorenzo Rodriguez

Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 3 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B5l2920

Received on Ice (Y/N): Yes

Temp: 12 °C

### Laboratory Reference Number

### B512920-02

Sample Description

150928-11 Storage Pad Biosolids (6

Grab-Composite)

<u>Matrix</u> Sampled Date/Time Solid 09/28/15 07:44

Received Date/Time

09/28/15 13:23

	Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Antimony ND 3.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Arsenic ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Barium ND 20 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Barium ND 0.015 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Barium ND 0.20 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Beryllium ND 0.20 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Cadmium ND 0.20 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Hexavalent Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Hexavalent Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Hexavalent Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Hexavalent Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Hexavalent Chromium ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Marcury ND 0.020 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Marcury ND 0.020 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Marcury ND 0.020 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Marcury ND 0.020 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Marcury ND 0.020 mg/L EPA 6020A/WE 10/05/15 17:30 ERA SIlver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Silver ND 0.010 mg/L EPA 8081A 10/29/15 05:22 acw Marcin ND 0.0000 mg/L EPA 8081A 10/29/15 05:22 acw Marcin ND 0.0000 mg/L EPA 8081A 10/29/15 05:22	California Waste Extraction Test	(Title 22 sec. 66)	261 Apx II): I	norganics		8.		
Arsenic ND 1.0 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Barium ND 0.15 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Beryllium ND 0.15 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Cadmium ND 0.20 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Cadmium ND 0.20 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Total Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Total Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Total Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Total Chromium ND 0.25 mg/L EPA 6020A/WE 10/05/15 17:30 ERA Mg/L EPA 6020A/WE 10/05/15 17:30 ERA ND 1.0 mg/L EPA 8081A 10/29/15 05:22 acw ND 1.0 mg/L EPA 8081A 10/2	Antimony			-	EPA 6020A	WE: 10/05/15 17:3	o ERA	
Barium         ND         20         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Beryllium         ND         0.15         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Cadmium         ND         0.20         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Total Chromium         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Hexavalent Chromium         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Hexavalent Chromium         ND         1.6         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Hexavalent Chromium         ND         1.6         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Hexavalent Chromium         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Copper         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Mercury         ND         0.020         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Mickel         ND         4.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L	Arsenic	ND	1.0	mg/L				
Beryllium	Barium	ND	20	_			_	
Cadmium         ND         0.20         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Total Chromium         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Hexavalent Chromium         ND         0.25         mg/L         EPA 7196         10/05/15 17:30         ERA           Cobalt         ND         16         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Copper         ND         5.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Lead         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Mercury         ND         0.020         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Mercury         ND         7.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Mickel         ND         4.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Selenium         ND         0.20         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Thallium         ND         1.0         mg/L         EPA 6020AWE	Beryllium	ND	0.15				-	
Total Chromium		ND	0.20				-	
Hexavalent Chromium	Total Chromium	ND	1.0				-	
Cobalt         ND         16         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Copper         ND         5.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Lead         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Mercury         ND         0.020         mg/L         EPA 6020AWE 10/05/15 16:46         mel           Molybdenum         ND         70         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Nickel         ND         4.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Selenium         ND         0.20         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides         4.4'-DD         mg/L         EPA 6020AWE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides	Hexavalent Chromium	ND	0.25				_	N_RLm
Copper         ND         5.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Lead         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Mercury         ND         0.020         mg/L         EPA 6020A/WE 10/05/15 16:46         mel           Molybdenum         ND         70         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Nickel         ND         4.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Selenium         ND         0.20         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Vanadium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II);         Pesticides         Mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); <td< td=""><td>Cobalt</td><td>ND</td><td>16</td><td>mg/L</td><td>EPA 6020A</td><td>/WE 10/05/15 17:30</td><td>) ERA</td><td>NMint</td></td<>	Cobalt	ND	16	mg/L	EPA 6020A	/WE 10/05/15 17:30	) ERA	NMint
Lead         ND         1.0         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           Mercury         ND         0.020         mg/L         EPA 7470A         10/05/15 16:46         mel           Molybdenum         ND         70         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           Nickel         ND         4.0         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           Selenium         ND         0.20         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE*10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II);         Pesticides         4,4'-DDD         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDT         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           Aldrin </td <td>Copper</td> <td>ND</td> <td>5.0</td> <td>mg/L</td> <td></td> <td></td> <td>_</td> <td></td>	Copper	ND	5.0	mg/L			_	
Mercury         ND         0.020         mg/L         EPA 7470A         10/05/15 16:46         mel           Molybdenum         ND         70         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Nickel         ND         4.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Selenium         ND         0.20         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         0.010         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         0.010         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         0.010         mg/L         EPA 6020A/WE 10/05/15	Lead	ND	1.0					
Molybdenum         ND         70         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Nickel         ND         4.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Selenium         ND         0.20         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         0.010         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         0.010         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         MD         0.010         mg/L         EPA 6020A/WE 10/05/15 17:30         <	-	ND	0.020					
Nickel         ND         4.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Selenium         ND         0.20         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides 4,4'-DDD         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDE         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDT         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           Aldrin         ND         0.014         mg/L         EPA 8081A         10/29/15 05:22         acw           Chlordane         ND         0.025         mg/L         EPA 8081A         10/29/15 05:22         acw<	Molybdenum	ND	70				3150	
Selenium         ND         0.20         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Silver         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides 4,4'-DDD         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDE         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDT         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           Aldrin         ND         0.014         mg/L         EPA 8081A         10/29/15 05:22         acw           Chlordane         ND         0.025         mg/L         EPA 8081A         10/29/15 05:22         acw           Dieldrin         ND         0.080         mg/L         EPA 8081A         10/29/15 05:22 <td>Nickel</td> <td>ND</td> <td>4.0</td> <td>mg/L</td> <td></td> <td></td> <td></td> <td></td>	Nickel	ND	4.0	mg/L				
Silver         ND         1.0         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Thallium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides 4,4'-DDD         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDD         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDT         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           Aldrin         ND         0.014         mg/L         EPA 8081A         10/29/15 05:22         acw           Chlordane         ND         0.025         mg/L         EPA 8081A         10/29/15 05:22         acw           Dieldrin         ND         0.080         mg/L         EPA 8081A         10/29/15 05:22         acw           Endrin         ND         0.0020         mg/L         EPA 8081A         10/2	Ve /	ND	0.20	mg/L				
Thallium         ND         1.4         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Vanadium         ND         4.8         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDD         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDT         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           Aldrin         ND         0.014         mg/L         EPA 8081A         10/29/15 05:22         acw           Chlordane         ND         0.025         mg/L         EPA 8081A         10/29/15 05:22         acw           Dieldrin         ND         0.080         mg/L         EPA 8081A         10/29/15 05:22         acw           Heptachlor         ND         0.047         mg/L         EPA 8081A         10/29/15 05:22         acw           Methoxychlor         ND         0.040         mg/L         EPA 8081A         10/29/15 05:22 <td< td=""><td></td><td>ND</td><td>1.0</td><td></td><td></td><td></td><td></td><td></td></td<>		ND	1.0					
Vanadium         ND         4.8 ND         mg/L EPA 6020A/WE 10/05/15 17:30         ERA           Zinc         ND         50         mg/L         EPA 6020A/WE 10/05/15 17:30         ERA           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides 4,4'-DDD         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDE         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           4,4'-DDT         ND         0.010         mg/L         EPA 8081A         10/29/15 05:22         acw           Aldrin         ND         0.014         mg/L         EPA 8081A         10/29/15 05:22         acw           Chlordane         ND         0.025         mg/L         EPA 8081A         10/29/15 05:22         acw           Dieldrin         ND         0.080         mg/L         EPA 8081A         10/29/15 05:22         acw           Endrin         ND         0.0020         mg/L         EPA 8081A         10/29/15 05:22         acw           Lindane         ND         0.047         mg/L         EPA 8081A         10/29/15 05:22         acw           Methoxychlor         ND         0.050         mg/L         EPA 8081		ND	1.4					
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Pesticides 4,4'-DDD	Vanadium	ND	4.8					
4,4'-DDD       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         4,4'-DDE       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         4,4'-DDT       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         Aldrin       ND       0.014       mg/L       EPA 8081A       10/29/15 05:22 acw         Chlordane       ND       0.025       mg/L       EPA 8081A       10/29/15 05:22 acw         Dieldrin       ND       0.080       mg/L       EPA 8081A       10/29/15 05:22 acw         Endrin       ND       0.0020       mg/L       EPA 8081A       10/29/15 05:22 acw         Heptachlor       ND       0.047       mg/L       EPA 8081A       10/29/15 05:22 acw         Lindane       ND       0.040       mg/L       EPA 8081A       10/29/15 05:22 acw         Methoxychlor       ND       1.0       mg/L       EPA 8081A       10/29/15 05:22 acw         Toxaphene       ND       0.050       mg/L       EPA 8081A       10/29/15 05:22 acw	Zinc	ND	50					
4,4'-DDD       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         4,4'-DDE       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         4,4'-DDT       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         Aldrin       ND       0.014       mg/L       EPA 8081A       10/29/15 05:22 acw         Chlordane       ND       0.025       mg/L       EPA 8081A       10/29/15 05:22 acw         Dieldrin       ND       0.080       mg/L       EPA 8081A       10/29/15 05:22 acw         Endrin       ND       0.0020       mg/L       EPA 8081A       10/29/15 05:22 acw         Heptachlor       ND       0.047       mg/L       EPA 8081A       10/29/15 05:22 acw         Lindane       ND       0.040       mg/L       EPA 8081A       10/29/15 05:22 acw         Methoxychlor       ND       1.0       mg/L       EPA 8081A       10/29/15 05:22 acw         Toxaphene       ND       0.050       mg/L       EPA 8081A       10/29/15 05:22 acw	California Waste Extraction Test (	Title 22 sec. 662	261 Apx II); P	esticides				
4,4'-DDE       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         4,4'-DDT       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         Aldrin       ND       0.014       mg/L       EPA 8081A       10/29/15 05:22 acw         Chlordane       ND       0.025       mg/L       EPA 8081A       10/29/15 05:22 acw         Dieldrin       ND       0.080       mg/L       EPA 8081A       10/29/15 05:22 acw         Endrin       ND       0.0020       mg/L       EPA 8081A       10/29/15 05:22 acw         Heptachlor       ND       0.047       mg/L       EPA 8081A       10/29/15 05:22 acw         Lindane       ND       0.040       mg/L       EPA 8081A       10/29/15 05:22 acw         Methoxychlor       ND       1.0       mg/L       EPA 8081A       10/29/15 05:22 acw         Toxaphene       ND       0.050       mg/L       EPA 8081A       10/29/15 05:22 acw	4,4'-DDD				EPA 8081A	10/29/15 05:22	2 acw	
4,4'-DDT       ND       0.010       mg/L       EPA 8081A       10/29/15 05:22 acw         Aldrin       ND       0.014       mg/L       EPA 8081A       10/29/15 05:22 acw         Chlordane       ND       0.025       mg/L       EPA 8081A       10/29/15 05:22 acw         Dieldrin       ND       0.080       mg/L       EPA 8081A       10/29/15 05:22 acw         Endrin       ND       0.0020       mg/L       EPA 8081A       10/29/15 05:22 acw         Heptachlor       ND       0.047       mg/L       EPA 8081A       10/29/15 05:22 acw         Lindane       ND       0.040       mg/L       EPA 8081A       10/29/15 05:22 acw         Methoxychlor       ND       1.0       mg/L       EPA 8081A       10/29/15 05:22 acw         Toxaphene       ND       0.050       mg/L       EPA 8081A       10/29/15 05:22 acw	•	ND	0.010	mg/L	EPA 8081A			
Aldrin         ND         0.014         mg/L         EPA 8081A         10/29/15 05:22 acw           Chlordane         ND         0.025         mg/L         EPA 8081A         10/29/15 05:22 acw           Dieldrin         ND         0.080         mg/L         EPA 8081A         10/29/15 05:22 acw           Endrin         ND         0.0020         mg/L         EPA 8081A         10/29/15 05:22 acw           Heptachlor         ND         0.047         mg/L         EPA 8081A         10/29/15 05:22 acw           Lindane         ND         0.040         mg/L         EPA 8081A         10/29/15 05:22 acw           Methoxychlor         ND         1.0         mg/L         EPA 8081A         10/29/15 05:22 acw           Toxaphene         ND         0.050         mg/L         EPA 8081A         10/29/15 05:22 acw		ND	0.010	mg/L	EPA 8081A			
Chlordane         ND         0.025         mg/L         EPA 8081A         10/29/15 05:22 acw           Dieldrin         ND         0.080         mg/L         EPA 8081A         10/29/15 05:22 acw           Endrin         ND         0.0020         mg/L         EPA 8081A         10/29/15 05:22 acw           Heptachlor         ND         0.047         mg/L         EPA 8081A         10/29/15 05:22 acw           Lindane         ND         0.040         mg/L         EPA 8081A         10/29/15 05:22 acw           Methoxychlor         ND         1.0         mg/L         EPA 8081A         10/29/15 05:22 acw           Toxaphene         ND         0.050         mg/L         EPA 8081A         10/29/15 05:22 acw		ND	0.014	mg/L	EPA 8081A			
Dieldrin         ND         0.080         mg/L         EPA 8081A         10/29/15 05:22 acw           Endrin         ND         0.0020         mg/L         EPA 8081A         10/29/15 05:22 acw           Heptachlor         ND         0.047         mg/L         EPA 8081A         10/29/15 05:22 acw           Lindane         ND         0.040         mg/L         EPA 8081A         10/29/15 05:22 acw           Methoxychlor         ND         1.0         mg/L         EPA 8081A         10/29/15 05:22 acw           Toxaphene         ND         0.050         mg/L         EPA 8081A         10/29/15 05:22 acw		ND	0.025	mg/L	EPA 8081A			
Heptachlor ND 0.047 mg/L EPA 8081A 10/29/15 05:22 acw Lindane ND 0.040 mg/L EPA 8081A 10/29/15 05:22 acw Methoxychlor ND 1.0 mg/L EPA 8081A 10/29/15 05:22 acw Toxaphene ND 0.050 mg/L EPA 8081A 10/29/15 05:22 acw		ND	0.080	mg/L	EPA 8081A			
Heptachlor         ND         0.047         mg/L         EPA 8081A         10/29/15 05:22 acw           Lindane         ND         0.040         mg/L         EPA 8081A         10/29/15 05:22 acw           Methoxychlor         ND         1.0         mg/L         EPA 8081A         10/29/15 05:22 acw           Toxaphene         ND         0.050         mg/L         EPA 8081A         10/29/15 05:22 acw		ND	0.0020					
Lindane         ND         0.040         mg/L         EPA 8081A         10/29/15 05:22         acw           Methoxychlor         ND         1.0         mg/L         EPA 8081A         10/29/15 05:22         acw           Toxaphene         ND         0.050         mg/L         EPA 8081A         10/29/15 05:22         acw	•	ND	0.047	_				
Methoxychlor         ND         1.0         mg/L         EPA 8081A         10/29/15 05:22         acw           Toxaphene         ND         0.050         mg/L         EPA 8081A         10/29/15 05:22         acw		ND	0.040					
Toxaphene ND 0.050 mg/L EPA 8081A 10/29/15 05:22 acw		ND	1.0					
Company Described the Company of the	•	ND	0.050					
	Surrogate: Decachlorobiphenyl	64.0	% 34.6-123					



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 4 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B5l2920

Received on Ice (Y/N): Yes Temp: 12 °C

### Laboratory Reference Number

### B512920-02

Sample Description

150928-11 Storage Pad Biosolids (6

Grab-Composite)

Matrix Solid Sampled Date/Time 09/28/15 07:44

Aroclor 1221 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw mg/L EPA 8082 10/29/15 01:05 JHR mg/L EPA 8020C 10/26/15 01:05 JHR	Analyte(s)	Result		RDL	Units	Method	Analysis Date	Analyst	Flag
Aroclor 1016	California Waste Extraction Test (	Title 22 sec. 66	3261	Apx II): PCI	Bs				
Aroclor 1221 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1232 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1242 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1242 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1248 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1254 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.10 mg/L EPA 8260 ND 10/29/15 01:02 jes Surrogate: 12-Dichloroethane-d4 86.7 % 75-120 EPA 8260 ND 10/07/15 05:22 jes EPA 8260 ND 10/07/15 05:22 jes Surrogate: 12-Dichloroethane-d8 87.9 % 80-125 EPA 8260 ND 10/07/15 05:22 jes EPA 8260 ND	Aroclor 1016					L EPA 8082	10/29/15 01:0	acw	
Aroclor 1232 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1242 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1248 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1254 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1254 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 1.0 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 1.0 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 1.0 mg/L EPA 8151A 10/14/15 01:24 labus EPA 8151A 10/14/15 01:25 labus EPA 8151A 1	Aroclor 1221	ND		0.50					
Aroclor 1242 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1248 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1254 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw EPA 8082 10/29/15 01:05 IPA 80082 10/29/15 01:0	Aroclor 1232	ND		0.50	-			-	
Aroclor 1248	Aroclor 1242	ND		0.50			- 100-		
Aroclor 1254 Aroclor 1260 ND 0.50 ND 0.50 ND 0.50 Surrogate: Decachlorobiphenyl  102 % 10-158  California Waste Extraction Test (Title 22 sec. 66261 Apx II); Herbicides 2.4.5-TP Silvex ND 0.10 Surrogate: DCAA  California Waste Extraction Test (Title 22 sec. 66261 Apx II); Herbicides 2.4.5-TP Silvex ND 0.10 ND 1.0 ND 1.0 ND 1.0 ND 0.10 ND 1.0 ND 0.10 ND 1.0 ND 0.10 ND 1.0 ND 0.10 ND 1.0 ND 1.0 ND 0.10 ND 1.0 ND 1	Aroclor 1248	ND		0.50				-	
Aroclor 1260 ND 0.50 mg/L EPA 8082 10/29/15 01:04 acw 20	Aroclor 1254	ND		0.50					
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Herbicides 2,4-D	Aroclor 1260	ND		0.50					
2,4-D ND 1.0 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex ND 0.10 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex ND 0.10 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex ND 0.10 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex PA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex PA 8151A 10/14/15 01:24 labus 2,4,6-Tribromophenol PA 86.7 % 75-120 mg/L EPA 8260B 10/07/15 05:22 jes 2,4,6-Tribromophenol PA 86.7 % 75-120 mg/L EPA 8260B 10/07/15 05:22 jes 2,4,6-Tribromophenol PA 80-125 mg/L EPA 8270C 10/26/15 01:05 JHR 10/26/15 01:05	Surrogate: Decachlorobiphenyl	102	%	10-158	3				
2,4-D ND 1.0 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex ND 0.10 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex ND 0.10 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex ND 0.10 mg/L EPA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex PA 8151A 10/14/15 01:24 labus 2,4,5-TP Silvex PA 8151A 10/14/15 01:24 labus 2,4,6-Tribromophenol PA 86.7 % 75-120 mg/L EPA 8260B 10/07/15 05:22 jes 2,4,6-Tribromophenol PA 86.7 % 75-120 mg/L EPA 8260B 10/07/15 05:22 jes 2,4,6-Tribromophenol PA 80-125 mg/L EPA 8270C 10/26/15 01:05 JHR 10/26/15 01:05	California Waste Extraction Test (7	Fitle 22 sec. 66	261	Apx II): Her	bicides				
2,4,5-TP Silvex	2,4-D	ND				- EPA 8151A	10/14/15 01:2	4 labus	
Surrogate: DCAA         103         % 15.2-134         EPA 8151A         10/14/15 01:24         labus           California Waste Extraction Test (Title 22 sec. 66261 Apx II); Volatiles Trichloroethene         ND         20         mg/L         EPA 8260B         10/07/15 05:22 jes         jes           Surrogate: 1,2-Dichloroethane-d4         86,7         % 75-120         EPA 8260B         10/07/15 05:22 jes         jes           Surrogate: Bromofluorobenzene         96,6         % 83-120         EPA 8260B         10/07/15 05:22 jes         jes           Surrogate: Toluene-d8         87,9         % 80-125         EPA 8260B         10/07/15 05:22 jes         jes           California Waste Extraction Test (Title 22 sec. 66261 Apx II); BNAs         EPA 8260B         10/07/15 05:22 jes         jes           California Waste Extraction Test (Title 22 sec. 66261 Apx II); BNAs         Mg/L         EPA 8270C         10/26/15 01:05 JHR           Mirex         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05 JHR           Pentachlorophenol         ND         0.17         mg/L         EPA 8270C         10/26/15 01:05 JHR           Pentachlorophenol         72.6         % 32-146         EPA 8270C         10/26/15 01:05 JHR           Surrogate: 2-Fluorophenol         39.6         % 21-96 <t< td=""><td>2,4,5-TP Silvex</td><td>ND</td><td></td><td>0.10</td><td>mg/l</td><td></td><td></td><td></td><td></td></t<>	2,4,5-TP Silvex	ND		0.10	mg/l				
Surrogate: 1,2-Dichloroethane-d4	Surrogate: DCAA	103	%	15.2-134	Ü		_		
Surrogate: 1,2-Dichloroethane-d4	California Waste Extraction Test (T	itle 22 sec. 66	261	Apx II); Vola	atiles				
Surrogate: 1,2-Dichloroethane-d4         86,7         % 75-120         EPA 8260B         10/07/15 05:22 jes           Surrogate: Bromofiluorobenzene         96,6         % 83-120         EPA 8260B         10/07/15 05:22 jes           Surrogate: Toluene-d8         87,9         % 80-125         EPA 8260B         10/07/15 05:22 jes           California Waste Extraction Test (Title 22 sec. 66261 Apx II); BNAs         Kepone         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05 JHR           Mirex         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05 JHR           Pentachlorophenol         ND         0.17         mg/L         EPA 8270C         10/26/15 01:05 JHR           2,3,7,8-TCDD (scan)         ND         0.00010         mg/L         EPA 8270C         10/26/15 01:05 JHR           Surrogate: 2,4,6-Tribromophenol         72.6         % 32-146         EPA 8270C         10/26/15 01:05 JHR           Surrogate: 2-Fluorophenol         39.6         % 21-96         EPA 8270C         10/26/15 01:05 JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05 JHR           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05 JHR	Trichloroethene			20		- EPA 8260F	3 10/07/15 05:2	2 ies	
Surrogate: Bromofluorobenzene         96.6         % 83-120         EPA 8260B         10/07/15 05:22 jes           Surrogate: Toluene-d8         87.9         % 80-125         EPA 8260B         10/07/15 05:22 jes           California Waste Extraction Test (Title 22 sec. 66261 Apx II); BNAs         Kepone         ND 0.21         mg/L EPA 8270C 10/26/15 01:05 JHR           Mirex         ND 0.21         mg/L EPA 8270C 10/26/15 01:05 JHR         JHR           Pentachlorophenol         ND 0.17         mg/L EPA 8270C 10/26/15 01:05 JHR           2,3,7,8-TCDD (scan)         ND 0.00010         mg/L EPA 8270C 10/26/15 01:05 JHR           Surrogate: 2,4,6-Tribromophenol         72.6         % 32-146         EPA 8270C 10/26/15 01:05 JHR           Surrogate: 2-Fluorophenol         39.6         ½ 27-117         EPA 8270C 10/26/15 01:05 JHR           Surrogate: 4-Terphenyl-d14         33.6         ¼ 49-126         EPA 8270C 10/26/15 01:05 JHR           Surrogate: Nitrobenzene-d5         63.4         ¼ 36-110         EPA 8270C 10/26/15 01:05 JHR	Surrogate: 1,2-Dichloroethane-d4	86,7	%	75-120	J			- 55	
Surrogate: Toluene-d8         87.9         % 80-125         EPA 8260B         10/07/15 05:22         jes           California Waste Extraction Test (Title 22 sec. 66261 Apx II); BNAs         Kepone         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05         JHR           Mirex         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05         JHR           Pentachlorophenol         ND         0.17         mg/L         EPA 8270C         10/26/15 01:05         JHR           2,3,7,8-TCDD (scan)         ND         0.00010         mg/L         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2,4,6-Tribromophenol         72.6         % 32-146         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorophenol         39.6         % 27-117         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05         JHR           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR           Surrogate: Planel 46         83.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR	Surrogate: Bromofluorobenzene	96.6	%	83-120				-	
Kepone         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05         JHR           Mirex         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05         JHR           Pentachlorophenol         ND         0.17         mg/L         EPA 8270C         10/26/15 01:05         JHR           2,3,7,8-TCDD (scan)         ND         0.00010         mg/L         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2,4,6-Tribromophenol         72.6         % 32-146         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorophenol         39.6         % 21-96         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05         JHR           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR	Surrogate: Toluene-d8	87.9	%	80-125					
Kepone         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05         JHR           Mirex         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05         JHR           Pentachlorophenol         ND         0.17         mg/L         EPA 8270C         10/26/15 01:05         JHR           2,3,7,8-TCDD (scan)         ND         0.00010         mg/L         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2,4,6-Tribromophenol         72.6         % 32-146         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorophenol         39.6         % 21-96         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05         JHR           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR	California Waste Extraction Test (T	itle 22 sec. 66	261	Any II): BNA	\e				
Mirex         ND         0.21         mg/L         EPA 8270C         10/26/15 01:05         JHR           Pentachlorophenol         ND         0.17         mg/L         EPA 8270C         10/26/15 01:05         JHR           2,3,7,8-TCDD (scan)         ND         0.00010         mg/L         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2,4,6-Tribromophenol         72.6         % 32-146         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorobiphenyl         50.2         % 27-117         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorophenol         39.6         % 21-96         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05         JHR           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR	Kepone					EDA 82700	10/26/15 01:0	e ILID	
Pentachlorophenol	Mirex	ND			_				
2,3,7,8-TCDD (scan) ND 0.00010 mg/L EPA 8270C 10/26/15 01:05 JHR Surrogate: 2,4,6-Tribromophenol 72.6 % 32-146 EPA 8270C 10/26/15 01:05 JHR Surrogate: 2-Fluorophenol 39.6 % 21-96 EPA 8270C 10/26/15 01:05 JHR Surrogate: 4-Terphenyl-d14 33.6 % 49-126 EPA 8270C 10/26/15 01:05 JHR Surrogate: Nitrobenzene-d5 63.4 % 36-110 EPA 8270C 10/26/15 01:05 JHR Surrogate: Nitrobenzene-d5 A3.4 % 36-110 EPA 8270C 10/26/15 01:05 JHR Surrogate: Rhenol d6	Pentachlorophenol	ND							
Surrogate: 2,4,6-Tribromophenol         72.6         % 32-146         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorobiphenyl         50.2         % 27-117         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorophenol         39.6         % 21-96         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05         JHR         NSloP           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR	2,3,7,8-TCDD (scan)	ND	0.00	010					
Surrogate: 2-Fluorobiphenyl         50.2         % 27-117         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 2-Fluorophenol         39.6         % 21-96         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05         JHR         NSloP           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR	Surrogate: 2,4,6-Tribromophenol	72.6			mgre				
Surrogate: 2-Fluorophenol         39.6         % 21-96         EPA 8270C         10/26/15 01:05         JHR           Surrogate: 4-Terphenyl-d14         33.6         % 49-126         EPA 8270C         10/26/15 01:05         JHR NS/oP           Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR           Surrogate: Phase of d5         90.7 <t< td=""><td>Surrogate: 2-Fluorobiphenyl</td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td></t<>	Surrogate: 2-Fluorobiphenyl							_	
Surrogate: 4-Terphenyl-d14       33.6       % 49-126       EPA 8270C       10/26/15 01:05       JHR NSIoP         Surrogate: Nitrobenzene-d5       63.4       % 36-110       EPA 8270C       10/26/15 01:05       JHR							10/20/10 01.0		
Surrogate: Nitrobenzene-d5         63.4         % 36-110         EPA 8270C         10/26/15 01:05         JHR	•	- 7/2							
Summate: Bhanel de 10/26/15 01:05 JHR			100-				10/20/10 01.0		NSIoP
29.7 % 28-112 EPA 8270C 10/26/15 01:05 JHR	•							5 JHR	
	Surrogate: Phenol-d6	29.7	%	28-112		EPA 82700	10/26/15 01:0	5 JHR	



Contact: Lorenzo Rodriguez

Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 5 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B5I2920

Received on Ice (Y/N): Yes Temp: 12 °C

### Laboratory Reference Number

### B512920-03

Sample Description

150928-12 Staged From Drying Bed #4-1 Class 1

Biosolids (6 Grab-Composite)

Matrix Solid Sampled Date/Time 09/28/15 07:16

Anions Nitrate as N 160 2.0 mg/kg EPA 300.0 09/29/15 04:49  Nutrients Nitrite as N 38 5.0 mg/kg SM 4500NO2 B 10/01/15 00:13	ara N_WEX
Nutrients Nitrite as N  38  5.0  mg/kg EPA 500.0  09/29/15 04:49  mg/kg SM 4500NO2 B 10/01/15 00:13	_
Nitrite as N 38 5.0 mg/kg SM 4500NO2 B 10/01/15 00:13	ima N WEX
1119/N9 3IVI 4300INOZ B 10/01/13 00:13	ima N WEX
Ammonia-Nitrogen 2200 200 mg/Kg* SM4500NH3H 09/30/15 12:12	sll N_WEX
Kjeldahl Nitrogen 44000 2000 mg/kg EPA 351.2 10/05/15 21:46	ima
Total Phosphorus 21000 40 mg/Kg* EPA 6020 09/30/15 17:34	ар
Metals and Metalloids; EPA SW846 Series	
Antimony ND 40	ERA
Areanic AID 40	ERA
Barium 230 10 mg/kg EPA 6020 09/29/15 21:34	ERA
Rendlium ND 50	ERA
Cadmium	ERA
Total Chromium	ERA
Cobalt	ERA
Copper	ERA
lead "	ERA
Mercury 1.0 1.0 mg/kg EPA 7471A 10/01/15 13:55	mel
Molyhdenum	ERA
Nickel 12 10 mg/kg FPA 6020 09/29/15 21:34	ERA
Selenium	ERA
Silver	ERA
Thallium	ERA
Vanadium	ERA
Zinc 640 40	ERA



Contact: Lorenzo Rodriguez

Address: 20111 Shay Road Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 6 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B5|2920

Received on Ice (Y/N): Yes

Temp: 12 °C

### <u>Laboratory Reference Number</u>

### B512920-04

Sample Description

150928-13 Staged From Drying Bed #4-2 Class 1

Biosolids (6 Grab-Composite)

Matrix Solid Sampled Date/Time 09/28/15 07:17

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Anions							
Nitrate as N	74	2.0	mg/kg	EPA 300.0	09/29/15 04:	58 ara	N_WEX
Nutrients							_
Nitrite as N	44	5.0	mg/kg	SM 4500N	O2 B 10/01/15 00:	13 ima	N_WEX
Ammonia-Nitrogen	3300	200	mg/Kg*	SM4500NF		-	N_WEX
Kjeldahl Nitrogen	47000	2000	mg/kg	EPA 351.2	10/05/15 21:4	563	IA_AAEV
Total Phosphorus	20000	40	mg/Kg*	EPA 6020	09/30/15 17:3		
Metals and Metalloids; EPA SW8-	46 Series						
Antimony	ND	10	mg/kg	EPA 6020	09/29/15 21:3	35 ERA	
Arsenic	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Barium	190	10	mg/kg	EPA 6020	09/29/15 21:3		
Beryllium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3		
Cadmium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3		
Total Chromium	29	10	mg/kg	EPA 6020	09/29/15 21:3		
Cobalt	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Copper	190	10	mg/kg	EPA 6020	09/29/15 21:3		
Lead	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Mercury	ND	0.20	mg/kg	EPA 7471A			
Molybdenum	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Nickel	10	10	mg/kg	EPA 6020	09/29/15 21:3	_	
Selenium	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Silver	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Thallium	ND	50	mg/kg	EPA 6020	09/29/15 21:3		
Vanadium	67	10	mg/kg	EPA 6020	09/29/15 21:3	_	
Zinc	580	10		EPA 6020	09/29/15 21:3		



Contact: Lorenzo Rodriguez

Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 7 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B512920

Received on Ice (Y/N): Yes Temp: 12 °C

### Laboratory Reference Number

### B512920-05

Sample Description

150928-14 Staged From Drying Bed #4-3 Class 1

Biosolids (6 Grab-Composite)

Matrix Solid Sampled Date/Time 09/28/15 07:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Anions		15					
Nitrate as N	380	4.0	mg/kg	EPA 300.0	09/30/15 02:0	)2 ams	N_WEX
Nutrients							
Nitrite as N	74	5.0	mg/kg	SM 4500N	IO2 B 10/01/15 00:1	13 jma	N_WEX
Ammonia-Nitrogen	2500	200	mg/Kg*	SM4500NI			N_WEX
Kjeldahl Nitrogen	32000	2000	mg/kg	EPA 351.2		-	14_44EX
Total Phosphorus	21000	40	mg/Kg*	EPA 6020	09/30/15 17:3	-	
Metals and Metalloids; EPA S	SW846 Series						
Antimony	ND	10	mg/kg	EPA 6020	09/29/15 21:3	37 ERA	
Arsenic	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Barium	270	10	mg/kg	EPA 6020	09/29/15 21:3	87	
Beryllium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3		
Cadmium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3		
Total Chromium	45	10	mg/kg	EPA 6020	09/29/15 21:3		
Cobalt	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Copper	260	10	mg/kg	EPA 6020	09/29/15 21:3		
Lead	12	10	mg/kg	EPA 6020	09/29/15 21:3		
Mercury	0.49	0.20	mg/kg	EPA 7471A		1320	
Molybdenum	13	10	mg/kg	EPA 6020	09/29/15 21:3		
Nickel	15	10	mg/kg	EPA 6020	09/29/15 21:3		
Selenium	ND	10	mg/kg	EPA 6020	09/29/15 21:3	•	
Silver	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Thallium	ND	50	mg/kg	EPA 6020	09/29/15 21:3		
Vanadium	94	10	mg/kg	EPA 6020	09/29/15 21:3		
Zinc	770	10	mg/kg	EPA 6020	09/29/15 21:3		



Contact: Lorenzo Rodriguez

Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 8 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B5I2920

Received on Ice (Y/N): Yes

Temp: 12 °C

### Laboratory Reference Number

### B512920-06

Sample Description

150928-15 Staged From Drying Bed #4-5 Class 1

Biosolids (6 Grab-Composite)

Matrix Solid Sampled Date/Time 09/28/15 07:20

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Anions			<i></i>				
Nitrate as N	27	2.0	mg/kg	EPA 300.0	09/29/15 05:	17 ara	N_WEX
Nutrients							
Nitrite as N	7.3	1.0	mg/kg	SM 4500N	O2 B 10/01/15 00:	13 ima	N_WEX
Ammonia-Nitrogen	3700	200	mg/Kg*	SM4500NF		-	N_WEX
Kjeldahl Nitrogen	37000	2000	mg/kg	EPA 351.2	10/05/15 21:4	. —	14_44EX
Total Phosphorus	24000	40	mg/Kg*	EPA 6020	09/30/15 17:4	,	
Metals and Metalloids; EPA SW	/846 Series						
Antimony	ND	10	mg/kg	EPA 6020	09/29/15 21:3	39 ERA	
Arsenic	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Barium	250	10	mg/kg	EPA 6020	09/29/15 21:3		
Beryllium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3		
Cadmium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:3		
Total Chromium	32	10	mg/kg	EPA 6020	09/29/15 21:3		
Cobalt	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Copper	260	10	mg/kg	EPA 6020	09/29/15 21:3		
Lead	10	10	mg/kg	EPA 6020	09/29/15 21:3		
Mercury	0.31	0.20	mg/kg	EPA 7471A		•	
Molybdenum	11	10	mg/kg	EPA 6020	09/29/15 21:3		
Nicke!	13	10	mg/kg	EPA 6020	09/29/15 21:3	_	
Selenium	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Silver	ND	10	mg/kg	EPA 6020	09/29/15 21:3		
Thailium	ND	50	mg/kg	EPA 6020	09/29/15 21:3	-	
Vanadium	74	10	mg/kg	EPA 6020	09/29/15 21:3		
Zinc	700	10	mg/kg	EPA 6020	09/29/15 21:3	-	



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 9 of 10

Project Name: VVWRA-Biosolids Sample - Anr

Project Number: [none]

Work Order Number: B512920

Received on Ice (Y/N): Yes

Temp: 12 °C

### Laboratory Reference Number

### B512920-07

Sample Description

150928-16 Staged From Drying Bed #4-11 Class 1

Biosolids (6 Grab-Composite)

Matrix Solid Sampled Date/Time 09/28/15 07:29

Received Date/Time

09/28/15 13:23

Anaiyte(s)	Result	RDL	Units	Method Ar	nalysis Date	Analyst	Flag
Anions							
Nitrate as N	54	2.0	mg/kg	EPA 300.0	09/29/15 05:2	7 ага	N_WEX
Nutrients							
Nitrite as N	8.3	1.0	mg/kg	SM 4500NO2	B 10/01/15 00:1:	3 jma	N_WEX
Ammonia-Nitrogen	3600	200	mg/Kg*	SM4500NH3F		-	N_WEX
Kjeldahl Nitrogen	45000	2000	mg/kg	EPA 351.2	10/05/15 21:46		IN_VV⊏∧
Total Phosphorus	26000	40	mg/Kg*	EPA 6020	09/30/15 17:44	-	
Metals and Metalloids; EPA S	W846 Series						
Antimony	ND	10	mg/kg	EPA 6020	09/29/15 21:40	ERA	
Arsenic	ND	10	mg/kg	EPA 6020	09/29/15 21:40		
Barium	280	10	mg/kg	EPA 6020	09/29/15 21:40		
Beryllium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:40		
Cadmium	ND	5.0	mg/kg	EPA 6020	09/29/15 21:40		
Total Chromium	37	10	mg/kg	EPA 6020	09/29/15 21:40		
Cobalt	ND	10	mg/kg	EPA 6020	09/29/15 21:40		
Copper	260	10	mg/kg	EPA 6020	09/29/15 21:40		
Lead	14	10	mg/kg	EPA 6020	09/29/15 21:40		
Mercury	0.92	0.50	mg/kg	EPA 7471A	10/01/15 14:24		
Molybdenum	12	10	mg/kg	EPA 6020			
Nickel	13	10	mg/kg	EPA 6020	09/29/15 21:40		
Selenium	ND	10	mg/kg	EPA 6020	09/29/15 21:40		
Silver	ND	10	mg/kg		09/29/15 21:40		
Thallium	ND	50	mg/kg	EPA 6020	09/29/15 21:40		
Vanadium	82	10		EPA 6020	09/29/15 21:40		
Zinc	770	10	mg/kg	EPA 6020	09/29/15 21:40		
* NELAP does not offer accredi			mg/kg	EPA 6020	09/29/15 21:40	ERA	

<sup>\*</sup> NELAP does not offer accreditation for this analyte/method/matrix combination



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 10 of 10

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: [none]

Work Order Number: B5|2920

Received on Ice (Y/N): Yes Temp: 12 °C

### **Notes and Definitions**

N\_RLm Due to sample matrix, the reporting limit has been raised.

N\_WEX Analyte determined on a 1:10 water extract from the sample.

NMint Due to matrix interference, the matrix spike and/or matrix spike duplicate performed on this sample did not meet laboratory acceptance criteria.

NRPDo The RPD/precision of replicate analyses performed on this sample did not meet laboratory acceptance

criteria.

NSIoP The data was accepted based on valid recovery of the remaining surrogate(s). This surrogate recovery was

below laboratory acceptance limits.

ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or

above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

Cindy Waddle

MDL: Method Detection Limit

\* / "": NELAP does not offer accreditation for this analyte/method/matrix combination

### **Approval**

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

Digitally signed by: Cindy Waddell
DN: CN = Cindy Waddell C = US O = Babcock

Laboratories OU = Project Manager Assistant

Date: 2015.11.05 12:55:36 -07'00'

cc:

mailing P.O. Box 432 Riverside, CA 92502-0432

location 6100 Quail Valley Court Riverside, CA 92507-0704 P 951 653 3351 F 951 653 1662 www.babcocklabs.com e-Short\_No Alias

NELAP no. 02101CA CA Elap no. 2698 EPA no. CA00102



Contact: Lorenzo Rodriguez Address: 20111 Shay Road

Victorville, CA 92394

Report Date: 05-Nov-2015

Analytical Report: Page 1 of 1

Project Name: VVWRA-Biosolids Sample - Ann

Project Number: [none]

Work Order Number: B5|2920

Received on Ice (Y/N): Yes

Temp: 12 °C

# SUBCONTRACT LABORATORY CHAIN OF CUSTODY AND ANALYSIS REQUEST RECORD Victor Valley Wastewater Reclamation Authority

A Joint Powers Authority and Public Agency of the State of California
thay Road · Victorville, CA 92394 · TEL: (760) 246-8638 FAX: (760) 246-5440 Plant Address: 20111 Shay Road · Victorville, CA 92394

econticementacom Ladriguez Bussan. 10 Website: www.vvvvra.com E-mail:

	Project No	Project Name: Biosolids Sample - Americal NPDES	A leaned A	APDEC	-	Sample		Lahora	tory Analys	Laboratory Analyses Requested	-	Ŀ	5	Camala	
1	n land	MILE DIOSOING ON	ujue – Amunan i	N DES		1			of the state of	nedata ca	3	5.12	20 1	april 1	
-	roject Co.	Project Contact: Lorenzo Rodriguez (760) 246-8638 ext. 216	guez (760) 246-8	8638 ext. 216		1 3 1 1 1 1 1		d	- : - :			nin	Prese	Preservation	ze)
03	ampler Na	Sampler Name: Bony Hess	٨						el r.H.v ribut:			านอา	Mc	Methods	tatel.
0,1	Sampler Signature:	nature:	2			prise		N - :	Metal 7 SCR V 5 - inc				-		D/A*
_	VVWRA ID#	Sample Location/Description	/Description	Sample Date	Sample Time	Grab	J.KN Vining	Nitrite Nitrate Total P	CAMI Amalysic Amalysic			# IntoT	lq <sub>2</sub> O2,Fl magirilasi		,WW)
<u>v</u>	11-826051	Storage Pad Biosolids (6 Grab-Composite)		09/28/15	PPTO	×	×	XX	XXX			9	9		SG
62	150128-12	Staged From Drying Bed # 4 - 1 (Class 1)Biosolids (6 Grab-Comp)	#4-1 b-Comp)	09/28/15	21.0	×	X	XXX	×			-	-		SG
01	Er8431	Staged From Drying Bed #4 - 2 (Class 1)Biosolids (6 Grab-Comp)	#4-2 b-Comp)	09/28/15	Lifo	×	×	XXX	×			-	-		SG
12	Y1-92605'	Staged From Drying Bed #4 - 3. (Class 1)Biosolids (6 Grab-Comp)	#4-3 b-Comp)	09/28/15	15110	×	X	XXX	×			-	-		SG
5.5	120459-15	Staged From Drying Bed # 4 - S. (Class 1)Biosolids (6 Grab-Comp)	#4-5 b-Comp)	09/28/15	0720	×	X	XXX	×			-	-		SG
F.	11-623	Staged From Drying Bed #4 - 11	#4-11. b-Comp)	09/28/15	Опгд										
	1	Staged From Drymg Bed # 4 - (Class 1)Biusohds (6 Grab-Comp)	#4 P-Comp)	09/28/15	Į.	×	XXXXXX	X	×			-			SG
~	clinquish	Relinquished By (Sign):	Date/Time:	Received By (Sign):	y (Sign):	Г	Relinqu	ished B	Relinquished By (Sign):	Date/Time:	-	Regeived By (Sign)	d By (S	ign):	
- 1	4	£	< 87-k	Con	Conday Mingera	3.5	B	K	Carly mylow	928-15		5	7	The state of the s	
-E O	Print: (2,42, 145, Company: VVwen		0147	Print: CINDY TOYER. Company: VIMIRA	Print: Undy myers Company: WWRA		Print: CIND MY POV	200	Company, IVIND D	10:35		Print:	3	Man	
24	clinquishe	Relinquished By (Sign):	Date/Time:	Received By (Sign)	(Sign):		Relinquished By (Sign):	ished B	/ (Sign):	Date/Time:		Received By (Sign):	dBy(S	ign):	
E 0	Print: KTGG	The asso	128/15	Print: V.C.	Bernst Servise		Print: Commany				a. C	Print:			g
(CO)	ample Co Sampl	Sample Condition Upon Receipt by Laboratory: Samples Received on Ice? (Tex) No	ipt by Laborator		Temperature		W.E.1	F. Extra	Laboratory Notes action and EPA 60	W.E.T. Extraction and EPA 6020, 7471A,		ample E.S. B.	s sent	Samples sent via courier to: E.S. Babcock Laboratories	er to:
	Samp	Samples Received Intact?	No.	A	ں ا		208	, 8082, Asbeste	8082, 8151, 8260, 8270, 719 Asbestos and Dioxin analysis.	S081, 8082, 8151, 8260, 8270, 7196/719 Asbestos and Dioxin analysis.		A51	2	J662 1	8
и		The state of the s				1				and Parent a	1	30 # 1	1	- ' - '	) >



Please Fax a copy of the completed Chain of Custody document to: China Cleanier, VVWRA at (760) 246-5440SEP 2 8 2014-02-155-7170



EPA ID# 01401, CA-ELAP #1795

685 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

REPORT NO .:

151753

**PAGE NO.:** 

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CLIENT:

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

**CLIENT PO: N/A** 

### **ASSAY RESULTS:**

1682 Salmonella MSRV Test:

Method: EPA 1682

			ou. El A loos		
BioVir #	Sample ID	Site	Analyte	Result	Units
151753-001	150928-11	Storage Pad	Salmonella spp.	9.7	MPN/4 g TS
Volume: 318.9	9/29/2015 10:40:00 AM 94 g Analysis S Fucker	Start Date: 9/29/2015 Analysis End: 10/9/2015	CollectTime: 7:44:00 AM Temp 5.8 C Analysis Start Time: 1339  Per Lorenzo Rodriguez, OK to run past 2	4-hr. hold time & E	BioVir
151753-002	150928-12	Drying Bed #4-1	Salmonella spp.	<0.3	MPN/4 g TS
Volume: 319.9	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015 Matrix: Biosoilds Start Date: 9/29/2015 Analysis End: 10/9/2015	CollectTime: 7:16:00 AM Temp 5.8 C Analysis Start Time: 1339		
Comment:					
151753-003	150928-13	Drying Bed #4-2	Salmonella spp.	2.7	MPN/4 g TS
Collector: Bob	by Hesse	CollectDate: 9/28/2015	CollectTime: 7:17:00 AM		

ReceiveDate: 9/29/2015 10:40:00 AM Matrix: Biosoilds

Temp 5.8 C

Volume: 297.68 g

Analysis Start Date: 9/29/2015

Analysis Start Time: 1339

Analyst: KTucker

150928-14

Analysis End: 10/9/2015

Comment: 151753-004

Drying Bed #4-3

Salmonella spp.

39.6

MPN/4 g TS

Collector: Bobby Hesse CollectDate: 9/28/2015 ReceiveDate: 9/29/2015 10:40:00 AM Matrix: Biosoilds

CollectTime: 7:15:00 AM

Temp 5.8 C

Volume: 311.85 g Analyst: KTucker Analysis Start Date: 9/29/2015

Analysis Start Time: 1339

Comment:

Analysis End: 10/9/2015

151753

PAGE NO.:

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**CLIENT:** 

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

CLIENT PO: N/A

### **ASSAY RESULTS:**

Test: 1682 Salmonella MSRV

Method: EPA 1682

BioVir#	sample ID	Site	Analyte	Result	Units
151753-005	150928-15	Drying Bed #4-5	Salmonella spp.	<0.3	MPN/4 g TS
Volume: 304.7	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015 Matrix: Biosoilds Start Date: 9/29/2015 Analysis End: 10/9/2015	CollectTime: 7:20:00 AM Temp 5.8 C Analysis Start Time: 1339		
151753-006	150928-16	Drying Bed #4-11	Salmonella spp.	3.4	MPN/4 g TS
Collector: Bobl ReceiveDate: Volume: 276.4	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015 Matrix: Biosoilds Start Date: 9/29/2015	CollectTime: 7:29:00 AM Temp 5.8 C Analysis Start Time: 1339		

Analyst: KTucker Analysis End: 10/9/2015

Comment:

Test: Coliform, Fecal

Method: EPA 1681

BioVir	# Sample ID	Site	Analyte	Result	Units
151753-001	150928-11	Storage Pad	Coliform, Fecal	9.6e2	MPN/1 g Total Solids
Collector: Bo	bby Hesse	CollectDate: 9/28/2015	CollectTime: 7:44:00 AM		
ReceiveDate:	9/29/2015 10:40:00 AM	Matrix: Biosoilds	Temp 5.8 C		
Volume: 318	.94 g Analysis	Start Date: 9/29/2015	Analysis Start Time: 1339		
Analyst: K	Tucker	Analysis End: 10/9/2015			
Comment:	Rec'd. samples #1-6 to run T.S%.	past 24-hr. hold time. Client notified	I. Per Lorenzo Rodriguez, OK to run past 2	24-hr. hold time &	BioVir
151753-002	150928-12	Drying Bed #4-1	Coliform, Fecal	2.5	MPN/1 g Total Solids
Collector: Bo	bby Hesse	CollectDate: 9/28/2015	CollectTime: 7:16:00 AM		
ReceiveDate:	9/29/2015 10:40:00 AM	Matrix: Biosoilds	Temp 5.8 C		
Volume: 319	.94 a Analysis	Start Date: 9/29/2015	Analysis Start Time: 1220		

Analysis Start Date: 9/29/2015

Analysis Start Time: 1339

Analyst: KTucker

Analysis End: 10/9/2015

Comment:

151753

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**CLIENT:** 

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

CLIENT PO: N/A

### **ASSAY RESULTS:**

Test: Coliform, Fecal

Method: EPA 1681

BioVir#	Sample ID	Site	Analyte	Result	Units
151753-003	150928-13	Drying Bed #4-2	Coliform, Fecal	48.8	MPN/1 g Total Solids
Volume: 297.68	9/29/2015 10:40:00 AM Ma g Analysis Start	CollectDate: 9/28/2015 atrix: Biosoilds Date: 9/29/2015 nalysis End: 10/9/2015	CollectTime: 7:17:00 AM Temp 5.8 C Analysis Start Time: 1339		
151753-004 1	150928-14	Drying Bed #4-3	Coliform, Fecal	25.9	MPN/1 g Total Solids
Collector: Bobby ReceiveDate: 9 Volume: 311.85 Analyst: KTur Comment:	/29/2015 10:40:00 AM Ma g Analysis Start I	CollectDate: 9/28/2015 atrix: Biosoilds Date: 9/29/2015 alysis End: 10/9/2015	CollectTime: 7:15:00 AM Temp 5.8 C Analysis Start Time: 1339		
151753-005 1	50928-15	Drying Bed #4-5	Coliform, Fecal	13.9	MPN/1 g Total Solids
Collector: Bobby ReceiveDate: 9/ Volume: 304.76 Analyst: KTuc Comment:	/29/2015 10:40:00 AM Ma g Analysis Start [	CollectDate: 9/28/2015  htrix: Biosoilds  Date: 9/29/2015  alysis End: 10/9/2015	CollectTime: 7:20:00 AM Temp 5.8 C Analysis Start Time: 1339		
151753-006 1	50928-16	Drying Bed #4-11	Coliform, Fecal	25.6	MPN/1 g Total Solids
Collector: Bobby ReceiveDate: 9/ Volume: 276.41 Analyst: KTuc Comment:	29/2015 10:40:00 AM Ma g Analysis Start D	CollectDate: 9/28/2015 trix: Biosoilds Date: 9/29/2015 alysis End: 10/9/2015	CollectTime: 7:29:00 AM Temp 5.8 C Analysis Start Time: 1339		OVING

Test: Enteric Virus

Method: ASTM D 4994-89

BioVir# Sample ID Site Analyte Result Units

151753

PAGE NO.:

**CLIENT NO** 

Comment:

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**CLIENT:** 

**ADDRESS** 

Victor Valley Wastewater Reclamation Authority 20111 Shay Road

Victorville, CA 92394

VIC001

CLIENT PO: N/A

### **ASSAY RESULTS:**

Test: **Enteric Virus** 

Method: ASTM D 4994-89

BioVir#	Sample ID	Site	Analyte	Result	Units
151753-001 1509	928-11	Storage Pad	Enteric Virus	<1	pfu/4 g TS
Collector: Bobby He ReceiveDate: 9/29/ Volume: 318.94 g Analyst: Valentin	/2015 10:40:00 AM Matrix: Analysis Start Date:		CollectTime: 7:44:00 Al Temp 5.8 C Analysis Start Time: 11:45	М	
Comment: Re	ec'd. samples #1-6 past 24-hr. run T.S%.	hold time. Client notified	l. Per Lorenzo Rodriguez, OK to ru	un past 24-hr. hold time & E	BioVir
151753-002 1509	928-12	Drying Bed #4-1	Enteric Virus	<1	pfu/4 g TS
Collector: Bobby He ReceiveDate: 9/29/ Volume: 319.94 g Analyst: Valentin Comment:	2015 10:40:00 AM Matrix: Analysis Start Date:	10/1/2015	CollectTime: 7:16:00 At Temp 5.8 C Analysis Start Time: 11:45	vi	
151753-003 1509	28-13	Drying Bed #4-2	Enteric Virus	<1	pfu/4 g TS
Collector: Bobby He ReceiveDate: 9/29/3 Volume: 297.68 g Analyst: Valentina Comment:	2015 10:40:00 AM Matrix: I Analysis Start Date:	10/1/2015	CollectTime: 7:17:00 AN Temp 5.8 C Analysis Start Time: 11:45	Л	
151753-004 1509	28-14	Drying Bed #4-3	Enteric Virus	<1	pfu/4 g TS
Collector: Bobby Hes ReceiveDate: 9/29/2 Volume: 311.85 g Analyst: Valentina Comment:	2015 10:40:00 AM Matrix: I Analysis Start Date:	10/1/2015	CollectTime: 7:15:00 AN Temp 5.8 C Analysis Start Time: 11:45	Λ	
	28-15	Double De della B			
Collector: Bobby Hes ReceiveDate: 9/29/2 Volume: 304.76 g Analyst: Valentina	sse Collo 2015 10:40:00 AM Matrix: E Analysis Start Date:	10/1/2015	CollectTime: 7:20:00 AN Temp 5.8 C Analysis Start Time: 11:45	<1	pfu/4 g TS

151753

PAGE NO.:

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**CLIENT:** 

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

**CLIENT PO: N/A** 

### **ASSAY RESULTS:**

Test: **Enteric Virus** 

Method: ASTM D 4994-89

BioVir# Sample ID Site Analyte Result Units 151753-006 150928-16 Drying Bed #4-11 **Enteric Virus** <1 pfu/4 g TS Collector: Bobby Hesse CollectDate: 9/28/2015 CollectTime: 7:29:00 AM ReceiveDate: 9/29/2015 10:40:00 AM Matrix: Biosoilds Temp 5.8 C

Volume: 276.41 g

Analysis Start Date: 10/1/2015

Analysis Start Time: 11:45

Analyst: ValentinaL Analysis End: 10/15/2015

Comment:

Test: **Helminth Ova** 

Method: EPA/625/R-92/013

BioVir #	Sample ID	Site	Analyte	Result	Units
151753-001	150928-11	Storage Pad	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids

Collector: Bobby Hesse

CollectDate: 9/28/2015

CollectTime: 7:44:00 AM

ReceiveDate: 9/29/2015 10:40:00 AM Matrix: Biosoilds

Temp 5.8 C

Volume: 318.94 g

Analysis Start Date: 10/1/2015

Analysis Start Time: 0935

Analyst: **SMullaney**  Analysis End:

Comment:

151753-002

11/3/2015

Rec'd. samples #1-6 past 24-hr. hold time. Client notified. Per Lorenzo Rodriguez, OK to run past 24-hr. hold time & BioVir

to run T.S%.

150928-12

Drying Bed #4-1

Helminth Ova

Helminth Ova observed / 4 g **Total Solids** 

<1

Collector: Bobby Hesse

CollectDate: 9/28/2015

CollectTime: 7:16:00 AM

ReceiveDate: 9/29/2015 10:40:00 AM Matrix: Biosoilds

**SMullaney** 

Analysis End: 11/3/2015

Temp 5.8 C

Volume: 319.94 g

Analysis Start Date: 10/1/2015

Analysis Start Time: 0935

Analyst:

Comment:

151753

PAGE NO.:

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**CLIENT:** 

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

Comment:

VIC001

**CLIENT PO: N/A** 

### **ASSAY RESULTS:**

Test: Helminth Ova

Method: EPA/625/R-92/013

BioVir#	Sample ID	Site	Analyte	Result	Units
151753-003	150928-13	Drying Bed #4-2	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Volume: 297.6 Analyst: SM	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015 Matrix: Biosoilds Start Date: 10/1/2015 Analysis End: 11/3/2015	CollectTime: 7:17:00 AM Temp 5.8 C Analysis Start Time: 0935		
Comment: 151753-004	150928-14	Drying Bed #4-3	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Volume: 311.8 Analyst: SM	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015 Matrix: Biosoilds tart Date: 10/1/2015 Analysis End: 11/3/2015	CollectTime: 7:15:00 AM Temp 5.8 C Analysis Start Time: 0935		
Comment: 151753-005	150928-15	Drying Bed #4-5	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Volume: 304.70	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015 Matrix: Biosoilds tart Date: 10/1/2015 Analysis End: 11/3/2015	CollectTime: 7:20:00 AM Temp 5.8 C Analysis Start Time: 0935		Total Solida
151753-006	150928-16	Drying Bed #4-11	Helminth Ova	<1	Helminth Ova observed / 4 g Total Solids
Volume: 276.4	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015 Matrix: Biosoilds tart Date: 10/1/2015 Analysis End: 11/3/2015	CollectTime: 7:29:00 AM Temp 5.8 C Analysis Start Time: 0935		

151753

PAGE NO.:

7 of 8

CLIENT:

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

20111 Shay Road

Victorville, CA 92394

**CLIENT NO** 

VIC001

ReceiveDate: 9/29/2015 10:40:00 AM Matrix: Biosoilds

Analyst: MPiper

Comment:

Volume: 304.76 g Analysis Start Date: 9/29/2015

Analysis End: 9/30/2015

**CLIENT PO: N/A** 

### **ASSAY RESULTS:**

Test: Total Solids Method: SM2540B

BioVir	# Sample ID	Site	Analyte	Result	Units
151753-001	150928-11	Storage Pad	Total Solids (%)	95.5	% Total Solids
Volume: 318.	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015  Matrix: Biosoilds  Start Date: 9/29/2015  Analysis End: 9/30/2015	CollectTime: 7:44:00 AM Temp 5.8 C Analysis Start Time: 1605		
Comment:	Rec'd. samples #1-6 to run T.S%.	past 24-hr. hold time. Client notified	. Per Lorenzo Rodriguez, OK to run past 2	24-hr. hold time &	BioVir
151753-002	150928-12	Drying Bed #4-1	Total Solids (%)	94.3	% Total Solids
Volume: 319.	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015  Matrix: Biosoilds  Start Date: 9/29/2015  Analysis End: 9/30/2015	CollectTime: 7:16:00 AM Temp 5.8 C Analysis Start Time: 1605		
151753-003	150928-13	Drying Bed #4-2	Total Solids (%)	93.3	% Total Solids
Volume: 297.	9/29/2015 10:40:00 AN	CollectDate: 9/28/2015  Matrix: Biosoilds Start Date: 9/29/2015 Analysis End: 9/30/2015	CollectTime: 7:17:00 AM Temp 5.8 C Analysis Start Time: 1605		
151753-004	150928-14	Drying Bed #4-3	Total Solids (%)	92.6	% Total Solids
Volume: 311.8	9/29/2015 10:40:00 AM	CollectDate: 9/28/2015  I Matrix: Biosoilds Start Date: 9/29/2015 Analysis End: 9/30/2015	CollectTime: 7:15:00 AM Temp 5.8 C Analysis Start Time: 1605		
151753-005	150928-15	Drying Bed #4-5	Total Solids (%)	93.3	% Total Solids
Collector: Bob	by Hesse	CollectDate: 9/28/2015	CollectTime: 7:20:00 AM		

Temp 5.8 C

Analysis Start Time: 1605

151753

PAGE NO.:

8 of 8

CLIENT:

Victor Valley Wastewater Reclamation Authority

**ADDRESS** 

**CLIENT NO** 

20111 Shay Road

Victorville, CA 92394 VIC001 CLI

CLIENT PO: N/A

### **ASSAY RESULTS:**

Test: Total Solids

Method: SM2540B

BioVir# Sample ID Site Analyte Result Units 151753-006 150928-16 Drying Bed #4-11 Total Solids (%) 93.6 % Total Solids Collector: Bobby Hesse CollectDate: 9/28/2015 CollectTime: 7:29:00 AM ReceiveDate: 9/29/2015 10:40:00 AM Matrix: Biosoilds Temp 5.8 C Volume: 276.41 g Analysis Start Date: 9/29/2015 Analysis Start Time: 1605 Analyst: **MPiper** Analysis End: 9/30/2015

Comment:

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. B ioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.

MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records m ay be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

11/10/2015	Trickal & Daniel		
Date:	Signature Quality Checked		



# BIOSOLIDS SAMPLE DATA SHEET

(Please di dut applicable aleas, sigh and return to Blovic with the sample ! Phone: 1:300 GIARDIA Faz. 707,147 (151: VIII); ye<u>verbiow com</u> Noto: Please print clearly, using waterproof life.

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COMPANY NAME &		all get all I so		DATE OF	Sampling: 7.7	75
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NAME OF SAMPLE				SAMPLE	D 750928-	
LCCATION OF SAN				TYPE OF	SAMPLE/ GRAB	
TREATMENT CHAR	ACTEMISTICS A. AN PERUS			TOTAL SI	XIOS PERCENTAGE	
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aualyste Semples: Regulations Part 50	mist not be hozen. Sempli 13. Volo: Adherence to sen be considered weeld if the	ranalysis musi (sash) Yela kandiino plocadul	i eruod 3 nitak eribloh una 22	intavé olliera	ise specified in the Code	of Perioral 10
A holding time rank	ence is allowed from your f	volantsiriúmbA legicios	inder Section m! Name	125.3(a). Pi	क्षेत्र होता है वर्षी का निका केहद	le furdetalk
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2 - 12 m 3 - 1		SAY(S) TO HE PERF				
ANALYTICAL	ENTERIC VIRUS ASTM DABBASS	HELMINTH OVA	SALMO	MELLA	PECAL COLIFORM	TOTAL SOLIDS EPA 1007
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# BIOSOLIDS SAMPLE DATA SHEET

(Flosse fill our applicable greas, sign and return to BloVII with the sample.)

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	CHES#	53-2	
	Client # 1	II cool	1
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	irly esing waterproof tak	(1620 - KASA (1631) - 6233			em di Kasa
COMPANY NAME &	ADDRESS	Echanica, An	DATE	OF SAMPLING:	8-75
Yoll Sley	ALL Victorials	CA 4394		op Bamperig	
the contract of the contract o	ento fodologia	the state of the s		6416	
NAME OF SAMPLE	Bohley Hess	e	SAMP	ŒD: ∕Se92x -12	
LOCATION OF SAM		( <b>4</b> 7-1	TYPE	OF SAMPLE (GGRAB	COMPOSITE)
TREATMENT CHAR	CLERON PROBLEMS AND AND A		TÓTA	L'SOLIDS PERCENTAGE	
CA52 A	Annerobic dife	<b>Xe</b> 7		SALISTERE BAS LIDETA	% Maries
SAMPLÉ VOLUME (	WET-WEIGHT): a_	305 g <sub>n-1</sub>		ALUST BE BACUDED II TO BEGAN MALY	(5)
	ENTERIC VIRUS	ELMINTH OVA SAL	MONELLA E FECA	COLIFORM	iot.
(Slore and ship cold)			Hours	Golden C.	318.74-3
Per 40 CFR Paris	i 136 and 503 (Monety, Mar sa Polititants in Wastewate	ch 26, 2007) Guidelines E	stabilshing Test Proce	dines for the Analysis of Po	Resille Assivace
Coliform, Total Tebal The holdlog time is a	and E. cof, Pecal Streptoco etended to 24 hours for Cas	eci, Emerocecci, and Sale as A composited Class 6	nonella: For fecal cold	om sambles for severe sli	One (baceolide) only
Method 1680 (LTS-	EC) or EPA Method 1681 (2	<b>en</b>			
	TARE IS allowed from you AST 6 HOUR HOLD TIME	г карока даниецта. Рум Name:	rondersection 138,	ile). Pause refer to the r	iusi kina lot baraite
Zasukiukuny	ASTO ACUR MULIX 1992		y myers		9-28-15
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	uly digested bioboli form test only)	\$	ang ing		
	ASSA	Valvo er beset	RMED - (PLEASE	GHECK	
ANALYTICAL STANDARD	ENTERIC VIRUS	HELMINTH OVA	SALMONELLA EPA 1682	FECAL COUFORM EPA 1881	TOTAL SOLIDS
CLASS A					
CLASS 18					
DWMENTS: JULY	al parel	24/2/2		- Jon 115 e.	cerely
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UKAG T	rupro-			MC2 9128115	16.40
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# BIOSOLIDS

SAMPLE DATA SHEET
(Please III) out applicable areas sign and referr
to the North Skill the earners.)
Phone: 1-800/GMHON Feb. 707/47-1761 W

LABUSEONLY: LIMS#1753

Mickel, Please partly clearly cang watercroat ink	
COMPANY NAMES ADDRESS:  COMPANY NAMES ADDRESS:	DATE OF SAMPLING 7-28-15
Contact Name: Lorent Red December 18 (40%) 546-5638-8516	TIME OF SARPUNITY
NAME OF SMARTER BODDY HESSE	SAMPLE ID:
TOCATION OF SAMPLING Dry 1- Bel 47-2	TYPE OF SAMPLEC & GRAD COMPUSITE
TREATFIERT CHARACTERISTICS  (/kis A = Alexadua	TOTAL SOLIDS PETICENTAGE
SAMPLIS VOLUME (WET WEIGHT)	HELIST BE HICKLYFO BI ORDER TO BEGIN ANN YEIF
HOLE TIMES ENTERIC VIRUS HELMINTH DVA SALMONELLA. (Shore time elim)  2 Weeks (Month B House)	FECAL COLFORM 297.68 G
িবলৈ। Collector - Language Extracted from EPA Facal Collows (Blosofds) M sewage shidge (highelids) only, Ne folding time is extended to 24 hours for the foll	owing sample lyons daing either EFA Molliod 1680 (LTB-
EC) of 1581 (A.1). Class A composited, Class B geroblesty digested, and Class B singly sold within 6 hours of sample (offschon, 6 hour maximum transport and 2 hour hardway procedures and making time white is called to the probability of valid date.	angeronically digested. All other matrices should be
roniblyins.arc not met:  Solutionally - Cange ago Extracted from EPA Salmonally (Biosolus) Nettox! 40  preferably, within 2 hour of collector. If it is expossible to examine samples within	182 (July 2006): Avalysos should hagm innisticitaty
analysis, Standies must not be foxe). Sample analysis must begin viber 0 tours o Regultions Part 503. Note: Advantor to sample handlar, procedures and boxing Samult results will be considered invent if these conditions are not rest.	unless otherwise specified in the Code of Foderal
A Indring Unite variance is allowed from your Regional Administrator under Society  Of the RUN PAST Hour Time  Find Name	136,3(a). Planae refer to the rimat Build for dotaile.
(up to 24 bys from semiding for Sectorial analysis)  LIPAY 1  SAMPLE COMPRISTO OF CLASS A COMPOSTED:	nyers 9:28:15
CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED Signature SIGNSCLIDS (FECAL COLIFORM TEST ONLY). (Lold)	A MARC
ASSAYIB) TO BE PERFORMED (PE	EABE CHECK)
数分离离记录的 \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P	ONGLIA FECAL COLLEGRIM TOTAL SOLIOS (1682 EPA (158) EPA (158)
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# BIOSOLIDS

# SAMPLE DATA SHEET

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LAB.US	ECINIC		<b>3</b> 1
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# BIOSOLIDS

# SAMPLE DATA SHEET

(Flease fill out applicable bleas, sign and return lo Biolaic with the samula I Prone: 1-800-GENTOIA Fox 207 Ta7-1751 - ELEA: www.blovin.som

LABILSE ONLY UMS#1753-5 Client # 100 Date Lec d.

Note: Please print clearly using walstproprint.	
CORREST WARE & ADDRESS  Union Valley where the frequency flustration for the second se	DATE OF SAMPLINGS
Connectifume: Laterage Locations Lei (460) Life x63x 2 ZIE	Time of Sampling:
NAME OF SAMPLER. BOOKS APSSC	Sample ID Sogizy-15
LOCATION OF SAMPLING DAYING BOLL HY	TYPE OF SAMPLE ( BRAB COMPOSHES
TREATMENT CHARACTERISTICS  LIAN A HARRISTICS OUTSET	TOTAL SOLIDS PERCENTAGE
SAMPES VOLUME (WET WEIGHT) ~ 300 /5-	(MAST SE MICHUDEO WORKER) 20 BEOW AND SSISS
HOLD TIMES ENTERIC VIRUS HELMINTHOVA SALMONELLA)	FECAL COLIFORM U.T. 7/ Q
Cold) Z Wisks 1 Month 6 Heuri:  Tenal Colitorin - Language Entracted from EPA Facal Coliform (Diosolida) Me	
ະຣຸພາກູລະສຸປໃຫຼດ (biosolide) only the holding time is extended to 24 hours for the follo EC) or 1661 (A.1). Class A ແລກເຂອໄອດ, Chass B neobload disclosurari and Chass B a analyzon within it hours of sample ເຜງໄຮດປາກ, it hour heaking in itensem; and 2 hours	olig kanada types uslog other ETA Method (640 (ETA natrostopiy digestas. All other makkas ebookt be
nandia'n procedure and Toking lime limits is critical to the production of votal date.	Sainple lesults will be consulered hvalid it this o
Selfrionalla : Larguage Extracted from EFA Samonella (biosoline) Method from preferably, within 2 hours of categitan. If it is impossible to examine samples within aparysis: Samples must not be udgen. Sample enalysis must health & hours it	2 hours, earnplus triust be milintained at <10°C with
Regulations Pert 50A NGS Afficience to sample bendling tracedures and building Septinic results will be considered litivalid if these conditions are not rest. A holding unit versione is allowed from your Regional Administrator under Section 1	tione Binds is critical to the production of valid data.
COLTO RUN PART HOLD TIME.  Run to 24 has from sampling for pagental analysis!	
☐ SAMPLE COMPRISED OF CLASS A COMPOSTED.	17440 978 15 Date
CLASS B AEROBICALLY OR ANAEROBICALLY DIGESTED SIGNAL STREET BIOSOLIUS (PECAL COLIFORM TEST ONLY).	1040
ASSAY(S) TO RE PERFORMED : (PLE	ASECHECIS
ANALYTIČAL ENTERIC VIRUS PIECMINTIN DVA SALMO STANDARD ASTMID 4994-89 EPA 626R-92/013 EPA	
CLASS A: X X	
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SOME SIMPPING ADDRESS PROVINTABORATORIES INC. 365 STONET	ROAD UNG FOLHERICIA CALIFORNIA, ORGIN



# BIOSOLIDS SAMPLE DATA SHEET

(Phisse fil cut applicable stops and and return to BloVir with the carrylo:) Phicso: 1-800 GIARI) IN: Fac: 107-147-1751, VISB: <u>WWW.NOWI.com</u>

LAB USE ONLY LIMS # 1753-0 Cient # VII CCO! Tima Rec 6: 10

SOMPATY NAMES VICTOR VIOLET		int Steamy Faing Waterprop	-DetE OF	Sampling: 1-28. Sampling:	i <u>s</u>
Johns Name Lori PAME OF SAMPLER	NAS ROSCIBULE.	7e: (16o) 236-7635		o#te	
OGATION OF SAM	LAYS 11°S	# 9-9		Sample: (2 Grád Olios pergentage	COMPOSITE->
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ANALYTICAE STARIDARD	ENTERIC VIEUS ASTM D'AB94-89	HELMIRTH OVA EPA 828 K 92/013	SALMONELLA EPA 1683	FECAL COLIFORM EPX 1681	TOTAL SOLIDS EPA 1884
CLASS 'A'					
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