

# CITY OF LOS ANGELES

CALIFORNIA



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February 11, 2015

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Ms. Lauren Fondahl, Sludge Coordinator  
U.S. EPA – Region IX (WTR-7)  
75 Hawthorne Street  
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### 2014 GRIFFITH PARK COMPOST FACILITY 40 CFR 503 REPORTING REQUIREMENTS

On November 25, 1992, the U.S. Environmental Protection Agency promulgated standards for the Use or Disposal of Sewage Sludge. 40 CFR 503 establishes requirements for the final use or disposal of sewage sludge and is applicable to any person who prepares sewage sludge that is applied to the land. The Griffith Park Compost Facility (GPCF) prepares sewage sludge for land use; thus, GPCF must comply with the 503 regulations.

Enclosed is the GPCF 503 sewage sludge report as requested. The City's 503 reports related to its entire management of bio-solids were submitted under separate cover. Approximately 1,710 wet tons of bio-solids, 593 tons of green trimmings and 526 tons of zoo manure was processed in 2014. The finished compost was used throughout city parks, schools, or sold to large private users. A total of 1,161 tons of compost were produced in 2014.

Whenever a pile fails fecal coliform it is held back until it passes, so no failed piles are distributed.

If you have any questions or comments regarding this report, please contact Constantin Pano at (213) 485-3025.

Sincerely,

Khalil M. Gharios, P.E., Division Manager  
Solid Resources Processing and Construction Division

KG:mvl

Attachment

c: Diane Gilbert, LA SAN  
James Kurz, LA SAN

Martin Rosen, EAD/LEA  
Rosalia Rojo, LA SAN



**U.S. EPA  
40 CFR 503  
SEWAGE SLUDGE REPORT**

**Griffith Park Compost Facility  
5400 Griffith Park Drive  
Los Angeles, CA 90027**

February 4, 2015

City of Los Angeles  
Bureau of Sanitation  
Solid Resources Processing and Construction Division

## Introduction

The Griffith Park Composting Facility (GPCF) occupies 1.5 acres within Griffith Park and is the first City owned and operated composting facility developed by the City's Bureau of Sanitation and the Department of Recreation and Parks. The GPCF is located at 5400 Griffith Park Drive, one mile north of the Wilson-Harding Municipal Golf Course and one mile south of Travel Town.

Green trimmings generated within Park, zoo manure generated by animals at the L.A. Zoo, and biosolids from the WWTP, are combined and composted to produce finished compost that is reused as a nutrient-rich, organic soil amendment. Approximately 4 wet tons of zoo manure and 15 wet tons of biosolids are combined with 60-90 cubic yards of yard trimmings for each pile. After approximately 28 days of composting and 17 days of curing, the compost is tested for fecal coliform or Salmonella. Once the results are received and confirmed to be clear of coliform and Salmonella, the finished product is distributed or sold to large users.

Approximately 1,710 wet tons of biosolids 595 tons of green trimmings, and 526 tons of zoo manure were processed in 2014. The finished compost was used throughout City parks, schools, or sold to large private users. A total of 1,161 tons of compost were produced in 2014.

## Applicability

### Subpart Land Application 40 CFR 503.10 (f)

Any person who prepares sewage sludge that is sold or given away in a bag or other container for application to the land need not comply with the general requirements in 503.12 and the management practices in 503.14 if the sewage sludge meets the pollutant concentrations in 503.13 (b) the Class A pathogen requirements in 503.32 (a), and one of the vector attraction reduction requirements in 503.33 (b) (1) through (b) (8).

The sale and distribution of compost occurs at the GPCF; consequently, the GPCF is required to report information in Section 503.17 through (iv) directly to EPA Region 9.

## Recordkeeping

### 503.17 (a) (2) (i)

Any person who prepares sewage sludge that is sold or given away in a bag or other container for application to the land shall monitor the concentration of each pollutant listed in Table 3 of 503.13. The limits of these pollutants could be found in the Table. The GPCF is therefore required to monitor the finished product four times per year. Table 1 of 503.13 contains the metal constituents and their allowed concentration limits. Composite analyses of the sample events of finished compost for piles built in 2008 are shown in the Appendix.

**TABLE**  
Constituents and Pollutant Limits for Griffith Park Compost Analyses (Dry weight basis).

<u>Constituents</u>	<u>Pollutant Limit</u>
Arsenic	41 mg/kg
Cadmium 39	39 mg/kg
Chromium	N/A
Copper	1,500 mg/kg
Lead	300 mg/kg
Mercury	17 mg/kg
Molybdenum	75 mg/kg
Nickel	420 mg/kg
Selenium	100 mg/kg
Zinc	2,800 mg/kg

503.17 (a) (2) (iii)

Any person who prepares sewage sludge that is sold or given away in a bag or other container for application to the land shall provide a description of how the Class A pathogen requirements in 503.32 (a) 5, 6, 7, or 8) are met. Furthermore, the requirements shall be met prior to meeting or at the same time the vector attraction reduction requirements in 503.33 are met.

Section 503.32 (a) (7) (i)

This section states that either the density of fecal coliforms in the sewage sludge shall be less than 1,000 MPN per gram of total solids (dry weight basis) or the density of Salmonella species bacteria in the sewage sludge shall be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land.

Description of how the Class A pathogen requirements are met 503.32 (a) (7) (i)

Twelve grabs from finished curing piles are composited and analyzed for fecal coliforms by the City of Los Environmental Monitoring Division lab once a quarter. If the fecal coliforms are less than 1,000 per gram of total solids (dry weight basis), the compost is deemed ready for distribution. If the sample does not pass, the curing piles are mechanically aerated and put back on the curing pad for a minimum of seven more days before retesting.

503.17 (a) (2) (ii)

This section states that sewage sludge shall be treated in one of the processes to further reduce pathogens.

Description of how the Class A pathogen requirements are met 503.17 (a) (2) (ii)

The static aerated pile composting method, a process that further reduces pathogens, is the procedure used. The temperature of the compost mix is maintained at 55 degrees Celsius (131 degrees F) or higher for three consecutive days. All temperatures are monitored daily and are recorded in a temperature log book which is kept at the facility.

503.17 (a) (2) (iv)

Any person who prepares sewage sludge that is sold or given away in a bag or other container for application to the land shall provide a description of how one of the vector attraction reduction requirements in 503.33 (b) (1) through (b) (8) are met.

503.17 (a) (2)

This section states that sewage sludge must be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40 degrees Celsius (104 degrees F) and the average temperature of the sewage sludge shall be higher than 45 degrees Celsius (113 degrees F).

Description of how the vector attraction reduction requirements are met

Static aerated pile composting, an aerobic process, is the process used to reduce vectors. The temperature of the sewage sludge is maintained higher than 40 degrees Celsius (104 degrees F) for 14 days or longer, and the average temperature of the sewage sludge is higher than 45 degrees Celsius (113 degrees F). All temperatures are monitored daily and are recorded in a temperature log book which is kept at the facility.

**ENVIRONMENTAL MONITORING DIVISION  
BIOLOGY SECTION – MICROBIOLOGY UNIT**

**GRIFFITH PARK COMPOST FACILITY  
FECAL COLIFORM RESULTS  
2008**

LOG-IN #	SAMPLE DATE/ANALYSIS START DATE	ANALYSIS COMPLETE DATE	ANALYSIS	COMPOST PILE	DILUTION FACTOR	RAW VALUE MPN/TABLE	% TOTAL SOLIDS	FECAL COLIFORMS MPN/GDW	PASS/FALL (<1000MPN/GWW=PASS)
HT114958	5-Feb	7-Feb	FRC	GPCF (Pile B-4)	1000	SOD	42.1	11601	FAIL
HT115230	13-Feb	15-Feb	NIC	GPCF (Pile B-5)	100	220	45.6	482	PASS
HT116298	10-Mar	20-Mar	ROB	GPCF (Pile B-4)	100	300	50.2	5976	FAIL
HT116514	25-Mar	27-Mar	NIC	GPCF (Pile B-4)	100	<2	54.0	<4	PASS
HT116948	8-Apr	10-Apr	PRA	Pile B-1	100	<2	58.1	<3	PASS
HT119080	10-Jun	13-Jun	MCR	GPCF-B (2-0508)	100	4	69.7	6	PASS
HT120070	8-Jul	10-Jul	NIC	GPBC-B (2-080708)	100	<2	60.4	<3	PASS
HT123062	7-Oct	9-Oct	MCR	GPBC-B (3-081007)	100	<2	48.1	<4	PASS

Note: Sample, analyzed by Fecal Coliform Test Method 9221 E1. (Std. Method, 20<sup>th</sup> Ed)

QUALITY CONTROL DATA					
ANALYTE	Blank (mg/kg)	MS (% Rec)	MSD (% Rec)	MS RPD	QC (% Rec)
ARSENIC	ND	85.4	84.8	0.65	91.9
CADMIUM	ND	81.2	80.9	0.37	94.4
CHROMIUM	0.001	78.0	79.2	1.49	91.4
COPPER	0.002	85.5	85.6	0.07	99.7
LEAD	ND	78.0	78.3	0.32	94.9
MERCURY	ND	83.4	77.8	6.85	130

<b>MOLYBDENUM</b>	ND	82.6	83.3	0.85	94.4
<b>NIKEL</b>	0.001	79.5	79.8	0.42	95.5
<b>SELENIUM</b>	ND	85.0	85.0	0.04	89.4
<b>ZINC</b>	ND	72.4	78.7	8.39	92.3

WG119660

<b>QUALITY CONTROL DATA</b>					
<b>ANALYTE</b>	<b>Blank (mg/kg)</b>	<b>MS (% Rec)</b>	<b>MSD (% Rec)</b>	<b>MS RPD</b>	<b>QC (% Rec)</b>
<b>ARSENIC</b>	ND	88.7	88.1	0.68	94.0
<b>CADMIUM</b>	ND	84.0	82.3	2.00	94.0
<b>CHROMIUM</b>	ND	83.9	82.2	2.01	90.0
<b>COPPER</b>	ND	94.7	100	5.4	104
<b>LEAD</b>	ND	83.8	83.4	0.44	97.0
<b>MOLYBDENUM</b>	ND	87.5	87.2	0.34	100
<b>NIKEL</b>	ND	83.6	83.1	0.56	100
<b>SELENIUM</b>	ND	86.1	85.0	1.27	90.0
<b>ZINC</b>	ND	NC	NC		94.0

<b>QUALITY CONTROL DATA</b>					
<b>ANALYTE</b>	<b>Blank (mg/kg)</b>	<b>MS (% Rec)</b>	<b>MSD (% Rec)</b>	<b>MS RPD</b>	<b>QC (% Rec)</b>
<b>ARSENIC</b>	ND	91.4	89.8	1.82	97.2
<b>CADMIUM</b>	ND	85.9	84.5	1.61	99.6
<b>CHROMIUM</b>	ND	81.5	85.4	4.67	97.6
<b>COPPER</b>	ND	73.9	113	41.8	100
<b>LEAD</b>	ND	80.1	81.2	1.26	98.0
<b>MERCURY</b>	ND	91.0	110	18.9	106
<b>MOLYBDENUM</b>	ND	87.4	87.7	0.33	101
<b>NIKEL</b>	ND	82.9	83.5	0.70	99.5
<b>SELENIUM</b>	ND	93.5	93.6	0.48	95.0

ZINC	ND	105			98.9
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**ICP METALS – QC Data for HT114959-1**

<b>QUALITY CONTROL DATA</b>						
	<b>ANALYTE</b>	<b>Blank (mg/kg)</b>	<b>MS (% Rec)</b>	<b>MSD up (% Rec)</b>	<b>MS/MSD %RP</b>	<b>QC1 (% Rec)</b>
WG 190612	<b>ARSENIC</b>	ND	96.7	96.9	0.06	101
	<b>CADMIUM</b>	ND	94.5	94.4	0.01	102
	<b>CHROMIUM</b>	ND	90.5	90.4	0.05	99.2
	<b>COPPER</b>	ND	103	103	0.11	104
	<b>LEAD</b>	ND	92.9	94.1	0.32	103
WG 190166	<b>MERCURY</b>	ND	117	103	3.18	103
	<b>MOLYBDENUM</b>	ND	93.6	93.4	0.07	98.8
	<b>NIKEL</b>	ND	90.6	91.1	0.13	98.5
	<b>SELENIUM</b>	ND	97.4	97.3	0.02	97.2
	<b>ZINC</b>	ND	93.1	94.3	0.30	98.5

ENVIRONMENTAL MONITORING DIVISION  
 BIOLOGY SECTION - MICROBIOLOGY UNIT

GRIFFITH PARK COMPOST FACILITY  
 FECAL COLIFORM ANALYSIS  
 2014

LOG-IN #	SAMPLE DATE/ ANALYSIS		ANALYST	COMPOST FILE	DILUTION FACTOR	RAW VALUE		% TOTAL SOLIDS	FECAL COLIFORMS	PASS/FAIL
	START DATE	COMPLETE DATE				MPN TABLE	MPN/GDW		(<1000 MPN/GDW = PASS)	
HT190230-1	14-Jan	17-Jan	FRC	GPBC-B8-140114	1000	23	71.2	323	PASS	
HT193058-1	8-Apr	11-Apr	FRC	GPBC-B2-140408	100	30	64.6	46	PASS	
HT196115	8-Jul	10-Jul	FRC	GPBC-B3-140708	1000	30	77.8	386	PASS	
	7-Oct	9-Oct	PRA	GPBC-B9-141007	1000	350	77.5	4516	FAIL	
	21-Oct	24-Oct	PRA	GPBC-B9-141021	1000	33	76.0	434	PASS	

Note: Samples analyzed by Fecal Coliform Test Method 9221 E.1. (Std. Methods, 20th Ed.)

Discharger:	GRIFFITH PARK	Name of Laboratory: Environmental Monitoring Division
Site:	GPBC-B8-140114	

HT190230-1  
GPBC-B8-140114  
1/14/2014

	Parameter	Analysis Date	MDL	ML	Unit	Value
<b>METALS</b>	Arsenic	2/5/2014	0.25	1.00	mg/kg	0.37
	Cadmium	2/5/2014	0.03	1.00	mg/kg	3.80
	Chromium	2/5/2014	0.54	1.00	mg/kg	23.7
	Copper	2/5/2014	0.04	1.00	mg/kg	350
	Mercury	1/26/2014	0.00025	0.020	mg/kg	0.891
	Molybdenum	2/5/2014	0.09	1.00	mg/kg	5.94
	Nickel	2/5/2014	0.57	2.00	mg/kg	18.3
	Lead	2/5/2014	0.19	0.50	mg/kg	10.1
	Selenium	2/5/2014	0.25	1.00	mg/kg	ND
	Zinc	2/5/2014	0.61	2.00	mg/kg	532
<b>Conventional Chemistry</b>	Total solids (TS)	1/14/2014		0.01	%	71.2

**Note:**

ND = Not detected; values below MDL

MDL = Method Detection Limit is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero, as defined in 40 CFR Part 136 Appendix B.

ML = Minimum Level is the concentration of a substance equivalent to the lowest calibration standard.

Results that fall between MDL and ML are estimated values.

Discharger:	GRIFFITH PARK	Name of Laboratory:	Environmental Monitoring Division
Sample Number:	HT190230-1		

**QUALITY CONTROL DATA**

	ANALYTE	Blank (mg/kg)	MS (%Rec)	MSD (%Rec)	MS Dup (%RPD)	LCS (%Rec)
<b>METALS</b>  ICP WG328978 Hg WG328682	Arsenic	ND	88.7	89.7	1.08	98.4
	Cadmium	ND	91.7	92.4	0.74	102
	Chromium	ND	93.1	94.5	1.59	103
	Copper	ND	93.6	103	9.46	101
	Mercury	ND	88.0	87.0	1.14	105
	Molybdenum	ND	92.1	92.5	0.52	101
	Nickel	ND	92.1	92.4	0.30	103
	Lead	ND	88.8	90.2	1.52	102
	Selenium	ND	88.7	90.5	2.00	101
Zinc	ND	95.3	109	13.8	102	

Discharger:	GRIFFITH PARK	Name of Laboratory:	Environmental Monitoring Division
Site:	GPBC-B2-140408		

HT193058-1  
GPBC-B2-140408  
4/8/2014

	Parameter	Analysis Date	MDL	ML	Unit	Value
<b>METALS</b>	Arsenic	5/9/2014	0.25	1.00	mg/kg	ND
	Cadmium	5/9/2014	0.03	1.00	mg/kg	2.66
	Chromium	5/9/2014	0.54	1.00	mg/kg	14.9
	Copper	5/9/2014	0.04	1.00	mg/kg	225
	Mercury	4/28/2014	0.00025	0.02	mg/kg	0.316
	Molybdenum	5/9/2014	0.09	1.00	mg/kg	4.66
	Nickel	5/9/2014	0.57	2.00	mg/kg	12.1
	Lead	5/9/2014	0.19	0.50	mg/kg	9.7
	Selenium	5/9/2014	0.25	1.00	mg/kg	ND
	Zinc	5/9/2014	0.61	2.00	mg/kg	414
<b>Conventional Chemistry</b>	Total solids (TS)	4/8/2014		0.01	%	64.6

**Note:**

ND = Not detected; values below MDL

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ML = Minimum Level is the concentration of a substance equivalent to the lowest calibration standard.

Results that fall between MDL and ML are estimated values.

Discharger:	GRIFFITH PARK	Name of Laboratory: Environmental Monitoring Division
Sample Number:	HT193058-1	

**QUALITY CONTROL DATA**

	ANALYTE	Blank (mg/kg)	MS (%Rec)	MSD (%Rec)	MS Dup (%RPD)	LCS (%Rec)
<b>METALS</b> ICP WG334757 Hg WG333786	Arsenic	ND	91.0	92.5	1.59	99.1
	Cadmium	ND	90.0	91.2	1.35	100
	Chromium	ND	90.2	91.9	1.82	98.3
	Copper	ND	101	111	10.0	98.1
	Mercury	ND	80.9	84.5	4.35	102
	Molybdenum	ND	89.3	98.5	9.72	98.5
	Nickel	ND	91.0	92.9	2.03	102
	Lead	ND	90.2	89.3	1.01	101
	Selenium	ND	91.2	92.8	1.80	100
	Zinc	ND	101	102	1.37	101

Discharger:	GRIFFITH PARK	Name of Laboratory:	Environmental Monitoring Division
Site:	GPBC - B3 - 140708		

HT196115-1  
GPBC - B3 -  
140708  
7/8/2014

	Parameter	Analysis Date	MDL	ML	Unit	Value
<b>METALS</b>	Arsenic	8/6/2014	0.25	1.00	mg/kg	0.47
	Cadmium	8/6/2014	0.03	1.00	mg/kg	4.57
	Chromium	8/6/2014	0.54	1.00	mg/kg	25.1
	Copper	8/6/2014	0.04	1.00	mg/kg	413
	Mercury	7/25/2014	0.00040	0.01	mg/kg	0.469
	Molybdenum	8/6/2014	0.09	1.00	mg/kg	7.27
	Nickel	8/6/2014	0.57	2.00	mg/kg	16.8
	Lead	8/6/2014	0.19	0.50	mg/kg	13.5
	Selenium	8/6/2014	0.25	1.00	mg/kg	ND
	Zinc	8/6/2014	0.61	2.00	mg/kg	656
<b>Conventional Chemistry</b>	Total solids (TS)	7/9/2014		0.01	%	77.8

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ML = Minimum Level is the concentration of a substance equivalent to the lowest calibration standard.

Results that fall between MDL and ML are estimated values.

Discharger:	GRIFFITH PARK	Name of Laboratory: Environmental Monitoring Division
Sample Number:	HT196115-1	

**QUALITY CONTROL DATA**

	ANALYTE	Blank (mg/kg)	MS (%Rec)	MSD (%Rec)	MS Dup (%RPD)	LCS (%Rec)
<b>METALS</b> ICP WG339673 Hg WG339060	Arsenic	ND	81.3	81.1	0.30	87.2
	Cadmium	ND	81.5	81.3	0.23	88.1
	Chromium	ND	84.0	83.9	0.13	89.0
	Copper	ND	90.0	94.7	5.08	89.4
	Mercury	ND	82.0	95.0	14.7	101
	Molybdenum	ND	86.0	82.7	3.91	87.8
	Nickel	ND	81.9	81.2	0.78	90.7
	Lead	ND	77.7	76.9	1.09	89.0
	Selenium	ND	76.4	75.2	1.54	88.8
	Zinc	ND	92.0	97.2	5.58	88.3

Discharger:	GRIFFITH PARK	Name of Laboratory:	Environmental Monitoring Division
Site:	1/0/1900		

	Parameter	Analysis Date	MDL	ML	Unit	Value
<b>METALS</b>	Arsenic		0.25	1.00	mg/kg	
	Cadmium		0.03	1.00	mg/kg	
	Chromium		0.54	1.00	mg/kg	
	Copper		0.04	1.00	mg/kg	
	Mercury		0.00025	0.02	mg/kg	
	Molybdenum		0.09	1.00	mg/kg	
	Nickel		0.57	2.00	mg/kg	
	Lead		0.19	0.50	mg/kg	
	Selenium		0.25	1.00	mg/kg	
	Zinc		0.61	2.00	mg/kg	
<b>Conventional Chemistry</b>	Total solids (TS)			0.01	%	

**Note:**

ND = Not detected; values below MDL

MDL = Method Detection Limit is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero, as defined in 40 CFR Part 136 Appendix B.

ML = Minimum Level is the concentration of a substance equivalent to the lowest calibration standard.

Results that fall between MDL and ML are estimated values.

Discharger:	GRIFFITH PARK	Name of Laboratory:	Environmental Monitoring Division
Site:	1/0/1900		

	Parameter	Analysis Date	MDL	ML	Unit	Value
<b>METALS</b>	Arsenic		0.25	1.00	mg/kg	
	Cadmium		0.03	1.00	mg/kg	
	Chromium		0.54	1.00	mg/kg	
	Copper		0.04	1.00	mg/kg	
	Mercury		0.00025	0.02	mg/kg	
	Molybdenum		0.09	1.00	mg/kg	
	Nickel		0.57	2.00	mg/kg	
	Lead		0.19	0.50	mg/kg	
	Selenium		0.25	1.00	mg/kg	
	Zinc		0.61	2.00	mg/kg	
<b>Conventional Chemistry</b>	Total solids (TS)			0.01	%	

**Note:**

ND = Not detected; values below MDL

MDL = Method Detection Limit is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero, as defined in 40 CFR Part 136 Appendix B.

ML = Minimum Level is the concentration of a substance equivalent to the lowest calibration standard.

Results that fall between MDL and ML are estimated values.

Discharger:	GRIFFITH PARK	Name of Laboratory:	Environmental Monitoring Division
Sample Number:	HT186465-1		

**QUALITY CONTROL DATA**

	ANALYTE	Blank (mg/kg)	MS (%Rec)	MSD (%Rec)	MS Dup (%RPD)	LCS (%Rec)
<b>METALS</b>  ICP WG318747 Hg WG317502	Arsenic	ND			#DIV/0!	
	Cadmium	ND			#DIV/0!	
	Chromium	ND			#DIV/0!	
	Copper	ND			#DIV/0!	
	Mercury	ND			#DIV/0!	
	Molybdenum	ND			#DIV/0!	
	Nickel	ND			#DIV/0!	
	Lead	ND			#DIV/0!	
	Selenium	ND			#DIV/0!	
Zinc	ND			#DIV/0!		