

SPECIFICATIONS  
FOR  
BIOSOLIDS LOADING, HAULING, AND DISPOSAL, AUGUST 2015

CITY OF TRACY, SAN JOAQUIN COUNTY, CALIFORNIA

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NOTICE IS HEREBY GIVEN that the CITY OF TRACY (hereinafter "CITY") requests qualifications and proposals for the BIOSOLIDS LOADING, HAULING AND DISPOSAL project and will receive proposal in the office of the WASTEWATER TREATMENT PLANT, 3900 Holly Drive, Tracy, California up to the hour of 2:00 p.m. on Thursday August 27, 2015

1. SCOPE OF WORK

The City of Tracy (City) generates municipal biosolids, a nutrient rich organic material, at the Wastewater Treatment Plant as a by-product of its operation. The City desires to remove and dispose of this material out of San Joaquin County annually in accordance with all applicable federal, state and local regulations. The work includes removing the biosolids from drying beds and stockpiles, loading, hauling, and disposing of the existing biosolids. This material should average 90% or greater dry solids at the time of hauling.

2. EXAMINATION OF SITE

The biosolids are located at the Wastewater Treatment Plant, 3900 Holly Drive, Tracy, CA, 95304. To examine the site, please contact the Wastewater Operations Superintendent, Monday - Thursday, between 7:00 a.m. and 3:00 p.m. Bidders are required to be familiar with the site and the work to be done.

3. AWARD OF CONTRACT

All bids are to be compared on the basis of meeting all necessary specifications. No bidder may withdraw their bid for a period of thirty (30) days after the bid submittal date. The City reserves the right to reject any and all bids or to waive any irregularities or informalities in any bid or in the bidding. The City reserves the right to award the bid to a bidder other than the low bidder if it is deemed to be in the best interest of the City of Tracy. Should a vendor within the city limits of the City of Tracy submit a bid, a 5% differential will be credited from the submitted bids in the determination of the lowest qualified bidder (contact Public Works for a Local Vendor Affidavit form). This shall not be construed to affect the actual price bid.

4. SUBCONTRACTORS

The name, background, and experience of any and every firm to which any work outlined in these Specifications is to be subcontracted by Contractor shall be submitted to the Utilities Director for his approval. Unless a subcontract is approved in writing by the Utilities Director, Contractor shall perform all the work outlined in these Specifications, using his own equipment and personnel. It must be clearly understood that Contractor, irrespective of any approved subcontract, shall be held entirely responsible for the quality and quantity of the work done under the terms of the Agreement. No subcontract to do any work outlined in these Specifications is to run

longer than the term of the Agreement, and the extension or renewal of any such subcontract agreement can only be made with the approval of the Public Works Director. The Agreement will not be assignable in all or part without the express written approval of the City.

5. INSURANCE

Concurrently with the execution of this Agreement by the Contractor, and prior to the commencement of any Work, the Contractor shall furnish evidence to the City that all of the following insurance requirements have been satisfied.

- A. General. The Contractor shall, throughout the duration of this Agreement, maintain insurance to cover Contractor, its agents, representatives, contractors, subcontractors, and employees in connection with the performance of services under this Agreement at the minimum levels set forth herein.
- B. Commercial General Liability (with coverage at least as broad as ISO form CG 00 01 01 96) coverage shall be maintained in an amount not less than \$2,000,000 general aggregate and \$1,000,000 per occurrence for general liability, bodily injury, personal injury, and property damage.
- C. Automobile Liability (with coverage at least as broad as ISO form CA 00 01 07 97, for "any auto") coverage shall be maintained in an amount not less than \$1,000,000 per accident for bodily injury and property damage.
- D. Workers' Compensation coverage shall be maintained as required by the State of California.
- E. Endorsements. Contractor shall obtain endorsements to the commercial general liability, automobile liability, and workers' compensation policies in a form satisfactory to the City.
- F. Authorized Insurers. All insurance companies providing coverage to Contractor shall be insurance organizations authorized by the Insurance Commissioner of the State of California to transact the business of insurance in the State of California.
- G. Insurance Certificate. Contractor shall provide evidence of compliance with the insurance requirements listed above by providing a certificate of insurance, in a form satisfactory to the City.
- H. Contractor's Obligation. Maintenance of insurance by the Contractor as specified in this Agreement shall in no way be interpreted as relieving the Contractor of any responsibility whatsoever (including indemnity obligations under this Agreement), and the Contractor may carry, at its own expense, such additional insurance as it deems necessary.

6. CONTRACTOR'S INDEMNIFICATION OF CITY

Contractor shall indemnify and hold harmless the City and its officers, agents and employees against all claims for damages to persons or property arising out of the

conduct of the Contractor or its employees, agents, subcontractors, or by these specifications, except only for those claims arising from the sole negligence of sole willful conduct of the City, its officers, agents, or employees. Contractor's indemnification shall include any and all costs, expenses, attorney's fees and liability incurred by the City, its officers, agents, or employees in defending against such claims, whether the same proceed to judgment or not.

Further, Contractor at its own expense shall, upon written request by the City, defend any such suit or action brought against the City, its officers, agents, or employees. Contractor's indemnification of City shall not be limited by any prior or subsequent declaration by the Contractor.

#### 6. PREVAILING WAGES

The CONTRACTOR is hereby notified that pursuant to Section 1770 et. seq. of the Labor Code of the Statutes of the State of California, the City Council of the City of Tracy has ascertained the general prevailing rate of per diem wages and the rates for legal holiday and overtime work for the locality in which the work is to be performed, for each craft or type of workman or mechanic needed.

- A. Prevailing wage rates shall be paid.
- B. Travel and subsistence payments shall be made as required by statute.
- C. Statutory provisions for penalties for failure to comply with wage and hour laws will be enforced.
- D. Certified copies of payroll records shall be maintained, certified, and available for inspection.
- E. Statutory requirements relating to the employment of apprentices shall be adhered to.
- F. Eight hours labor constitutes a legal day of work.
- G. Contractor shall comply with workers compensation requirements of Labor Code section 3700.

#### 7. SUBCONTRACTOR'S INSURANCE

Contractor shall include all subcontractors as insured under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors shall be subject to all the requirements stated herein.

#### 8. DEFAULT BY CONTRACTOR

The Agreement may be canceled by the City without liability for damage, when in the City's opinion the Contractor is not complying in good faith, has become insolvent, or has assigned or subcontracted any part of the work without the City's consent. In the event of such cancellation, the Contractor will be paid the actual amount due based on unit prices and the quantity of work completed at the time of cancellation. Damages caused to the City by acts of the Contractor will be subtracted from this said amount. The Contractor, in having tendered a Bid, shall be deemed to have waived any and all claims for damages because of cancellation of Agreement for any such reason. The provisions of this section shall be in addition to all other rights and remedies available to the City under law.

9. TERMINATION OF AGREEMENT

The City may terminate the Agreement at its own discretion or when conditions encountered during the work make it impossible or impracticable to proceed, or when the City is prevented from proceeding with the Agreement by act of God, by law, or by official action of a public authority.

10. CITY BUSINESS LICENSE

Contractor and all subcontractors shall obtain a City of Tracy business license prior to beginning any work

11. QUALITY OF MUNICIPAL BIOSOLIDS

The City self-certifies the biosolids as a Class B. A copy of the analytical results for the biosolids from October 2012 is included with this bid package. A current laboratory analysis will be provided to the contractor when it is available. The biosolids are anticipated to have similar concentrations of metals, nitrogen, and bacteria. The solids content may be different. The contractor shall ensure the compatibility of this material with the appropriate regulations and the proposed disposal site.

12. LOADING, HAULING AND DISPOSAL

The work to be done includes removing approximately **1,500 tons** of dried biosolids that are currently stockpiled in or near the drying beds at the Wastewater Treatment Plant by loading, hauling, and disposing of the material to the acceptable site(s). The contractor shall provide certified mobile scales and weigh the trucks before leaving the plant site to determine the tonnage of biosolids hauled, or the contractor may have each truck weighed at a certified scale. The contractor shall conform to all applicable laws, rules, and regulations in performing this work. Care shall be taken not to damage any site improvements at the Wastewater Treatment Plant during the operation. Any damage shall be the Contractor's responsibility to repair.

13. INFORMATION TO REPORT

The contractor is required to provide the following information to the City:

- A. Name and location of the site(s) for final disposal of the biosolids,
- B. Letter(s) of acceptance from the owner/manager of disposal site(s) that receive(s) the biosolids,
- C. WDR number(s) of the site(s) by Regional Water Quality Control Board, if applicable,
- D. Copies of weight tags by mobile scales or c from certified scales,
- E. Subsequent use(s) of the land,
- F. Solids application rate(s) in pounds/year (specify wet or dry)

\*NOTE: Items A through D must be submitted to begin the process of payment(s).

14. TIME OF COMPLETION

The Contractor shall complete the specified work to be done within sixty (60) days of the Notice to Proceed or by October 15, unless Contractor receives an extension in writing from City. For this contract, the Notice to Proceed shall be the issuance of the City purchase order.

15. MEASUREMENT AND PAYMENT

The quantity of "Biosolids Loading, Hauling, and Disposal" shall be weighted and paid on a per wet ton basis. The unit price paid shall include all equipment, tools, labor, transportation, disposal charges and incidentals necessary to complete the work.

16. BID SUBMITTAL DATE

Bid proposals must be received by the Purchasing Clerk, Tracy Wastewater Treatment Plant, 3900 Holly Drive, Tracy, California, 95304 by **Thursday, August 27, 2015 at 2:00 p.m.** No bid proposals will be accepted after this time.

17. CONTACT PERSONS

For Bid Information:

Kul Sharma  
Director of Utilities  
(209) 831-4490  
M-Th 8:00 a.m. to 5:00 p.m.

For Site Information:

Dale Klever  
Wastewater Treatment Plant Superintendent  
(209) 831-4489  
M-Th 7:00 a.m. to 3:00 p.m.

For Payment Information

Margie Goulart  
Administrative Assistant III  
(209) 831-4480

Attachment: Lab results 2014

SPEC BIOSOLIDS DISPOSAL Aug 2015

PROPOSAL

TO THE

CITY OF TRACY

SAN JOAQUIN COUNTY, CALIFORNIA

FOR

BIOSOLIDS LOADING, HAULING, AND DISPOSAL, AUGUST  
2015

\*\*\*\*\*

Name of Bidder: \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

The undersigned declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any other person, firm or corporation; that bidder has examined the Specifications and hereby proposes to do all the work in accordance with said Specifications for the unit prices set forth in the enclosed Schedule of Prices.

SCHEDULE OF PRICES

BIOSOLIDS LOADING, HAULING, AND DISPOSAL,  
AUGUST 2015

The City reserves the right to award bid or reject any and all bids.

<u>NO.</u>	<u>QUANTITY</u>	<u>ITEM</u>	<u>UNIT PRICE</u>	<u>PRICE</u>
1.	1,500 Wet Tons	Biosolids Loading, Hauling and Disposal	_____	_____
			(per ton)	

SIGNATURE OF BIDDER

IN WITNESS WHEREOF, the individuals signing this Bid represent and warrant that they have the right, power, legal capacity, and authority to sign this Bid on behalf of the Bidder, and have caused this Bid to be executed by setting hereto their names, titles, and signatures at \_\_\_\_\_ county, in the State of \_\_\_\_\_.

**BIDDER:**

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Name and Title of Signatories)

\_\_\_\_\_  
(Legal Name of Bidder)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Phone Number)

THIS PROPOSAL MUST BE SIGNED BY THE BIDDER.

Bidders List

Jim Brisco Enterprises  
3549 West McSwain Road  
Merced, CA 95341

Biosolids Recycling, Inc.  
1116 Hastings Court  
Antioch, CA 94509

Liberty Composting  
1601 Skyway Drive, #205  
Bakersfield, CA 93380



## NOTICE AND NECESSARY INFORMATION (NANI)

*This form is to assist compliance with the bulk sewage sludge (biosolids) notification requirements [503.12(f)]. Please note, however, that if the biosolids meet the Exceptional Quality (EQ) criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to landowners and lease holders.*

**Facility:** City of Tracy **Biosolids Type:** Class B

**Monitoring Period:** **From** July 1, 2013 **To** June 30, 2014

**To be completed by PREPARERS of Biosolids**

A. Please provide pollutant concentrations.

Constituent	Concentration Dry Weight (mg/kg)	Pollutant Concentrations (Table 3, 40 CFR 503.13) Monthly Average (mg/kg)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) Daily Maximum (mg/kg)
Arsenic	6.52	41	75
Cadmium	ND	39	85
Chromium	39.3	1200	3000
Copper	466	1500	4300
Lead	10.2	300	840
Mercury	0.11	17	57
Molybdenum	10.4	N/A**	75
Nickel	19.7	420	420
Selenium	6.63	100	100
Zinc	590	2800	7500
TKN	52795	N/A	N/A
Ammonia-N	10352	N/A	N/A
Nitrate-N	8.18	N/A	N/A
Percent Solids	96.6	N/A	N/A

\* Biosolids may not be land applied if any pollutant exceeds these values

\*\* EPA has temporarily removed molybdenum limits from Table 3, Table 2 and Table 4

B. Pathogen Reduction (40 CFR 503.32) -- Please indicate level achieved.

Class A       Class B

C. Vector Attraction Reduction (40 CFR 503.33) -- Please indicate the option performed.

Option 1       Option 2       Option 3       Option 4  
 Option 5       Option 6       Option 7       Option 8  
 No vector attraction reduction options were performed

D. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name and Official Title: <i>Erich De Mas, Lab Supervisor</i>	B. Area Code and Telephone Number: 209 831 4488
C. Signature: 	D. Date signed: 11/25/14

## Class B Biosolids Report 2014

ANALYTICAL PARAMETER	BIOSOLIDS CONCENTRATION DRY WEIGHT (MG/KG)	CLASS A 503 LIMITS**	UNITS
Arsenic	6.52	75	mg/kg
Cadmium	0.00	85	mg/kg
Chromium	39.3	N/A	mg/kg
Copper	466	4300	mg/kg
Lead	10.2	840	mg/kg
Mercury	0.11	57	mg/kg
Molybdenum	10.4	75	mg/kg
Nickel	19.7	420	mg/kg
Potassium	8592	N/A	mg/kg
Selenium	6.63	100	mg/kg
Zinc	590	7500	mg/kg
pH	6.33	N/A	units
Total Solids (TS)	966000	N/A	mg/kg
Ammonia-N	10352	N/A	mg/kg
Nitrate as N	8.18	N/A	mg/kg
Total Kjeldahl Nitrogen	52795	N/A	mg/kg
Total Phosphorus	31056	N/A	mg/kg
Fecal Coliform Assay*	118	<2.0X10 <sup>6</sup>	MPN / g

**All data reported on a dry weight basis**

\* Geometric mean for assay data

\*\* Ceiling concentrations for metals limits

N/A - Sludge limit is not applicable to class B specifications.



*Alpha*

Alpha Analytical Laboratories Inc.

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

21 August 2014

Tracy, City of - Water Treatment Plant

Attn: Erich Delmas

3900 Holly Drive

Tracy, CA 95304

RE: WWTP Sludge Drying Beds

Work Order: 14H0430

Enclosed are the results of analyses for samples received by the laboratory on 08/06/14 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore  
Project Manager



Alpha Analytical Laboratories Inc.

e-mail: [clientservices@alpha-labs.com](mailto:clientservices@alpha-labs.com)

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Composite Drying Beds	14H0430-01	Soil	08/06/14 11:04	08/06/14 21:45
S3	14H0430-02	Soil	08/06/14 11:08	08/06/14 21:45
S4	14H0430-03	Soil	08/06/14 11:06	08/06/14 21:45
S5	14H0430-04	Soil	08/06/14 11:05	08/06/14 21:45
S6	14H0430-05	Soil	08/06/14 11:02	08/06/14 21:45
N4	14H0430-06	Soil	08/06/14 11:18	08/06/14 21:45
N5	14H0430-07	Soil	08/06/14 11:17	08/06/14 21:45
N6	14H0430-08	Soil	08/06/14 11:16	08/06/14 21:45

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



# Alpha

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Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

### Metals by EPA 6000/7000 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil    Sampled: 08/06/14 11:04    Received: 08/06/14 21:45</b>												
Arsenic	6.3	0.40	2.0	2.0	mg/kg	1	AH41336	08/13/14 09:31	08/13/14 16:05	EPA 6010B	MAM	
Cadmium	ND	7.0	100	1.0	"	100	"	"	08/14/14 11:04	"	"	U
Chromium	38	0.090	5.0	5.0	"	1	"	"	08/13/14 16:05	"	"	
Copper	450	0.20	10	10	"	"	"	"	"	"	"	
Lead	9.9	0.10	5.0	5.0	"	"	"	"	"	"	"	
Mercury	0.11	0.020	0.20	0.20	"	"	AH41427	08/15/14 10:14	08/18/14 15:29	EPA 7471A	JJM	J
Molybdenum	10	0.050	10	10	"	"	AH41336	08/13/14 09:31	08/13/14 16:05	EPA 6010B	MAM	
Nickel	19	0.20	10	10	"	"	"	"	"	"	"	
Phosphorus	30000	300	5000	50	"	100	"	"	08/14/14 11:04	"	"	
Potassium	8300	2.0	50	50	"	1	"	"	08/13/14 16:05	"	"	
Selenium	6.4	0.70	2.0	2.0	"	"	"	"	"	"	"	
Zinc	570	0.40	10	10	"	"	"	"	"	"	"	

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Project Manager: Erich Delmas  
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Project Number: [none]

Reported:  
08/21/14 16:15

**Conventional Chemistry Parameters by APHA/EPA Methods  
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil    Sampled: 08/06/14 11:04    Received: 08/06/14 21:45</b>												
<b>% Solids</b>	<b>96.6</b>	0.100	0.100	0.100	%	1	AH42024	08/20/14 07:13	08/21/14 12:40	EPA 160.3	AEA	
<b>Ammonia as N</b>	<b>10000</b>	2.0	2.0	2.0	mg/kg	"	AH41849	08/19/14 08:00	08/19/14 12:00	SM4500NH3C	EV	
<b>Biochemical Oxygen Demand</b>	<b>34000</b>	2.0	5.0	5.0	"	"	AH41410	08/08/14 08:00	08/13/14 15:00	SMS210B	AEA	
<b>pH</b>	<b>6.33</b>	1.68	1.68	1.68	pH Units	"	AH41127	08/11/14 08:50	08/11/14 08:51	EPA 9045C	TLH	
<b>Total Kjeldahl Nitrogen</b>	<b>51000</b>	2.0	10	10	mg/kg	"	AH41403	08/14/14 07:07	08/18/14 09:03	SM4500-Norg	SMS	
												B

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3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Anions by EPA Method 300.0**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil    Sampled: 08/06/14 11:04    Received: 08/06/14 21:45</b>												
Nitrate as N	7.9	0.40	2.0	2.0	mg/kg	1	AH41862	08/18/14 16:54	08/19/14 04:40	EPA 300.0	SMP	

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Tracy CA, 95304  
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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Microbiological Parameters by APHA Standard Methods**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>S3 (14H0430-02) Soil Sampled: 08/06/14 11:08 Received: 08/06/14 21:45</b>												
Total Coliforms	4.5		1.8	1.8	MPN/100 mL	1	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	ND		1.8	1.8	"	"	"	"	"	"	"	U
<b>S4 (14H0430-03) Soil Sampled: 08/06/14 11:06 Received: 08/06/14 21:45</b>												
Total Coliforms	> 1600000		1.8	1.8	MPN/100 mL	1	AH41231	08/07/14 11:00	08/09/14 13:00	SM9221	TCA	
Fecal Coliforms	1600000 0		1.8	1.8	"	"	"	"	"	"	"	
<b>S5 (14H0430-04) Soil Sampled: 08/06/14 11:05 Received: 08/06/14 21:45</b>												
Total Coliforms	14000		1.8	1.8	MPN/100 mL	1	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	11000		1.8	1.8	"	"	"	"	"	"	"	
<b>S6 (14H0430-05) Soil Sampled: 08/06/14 11:02 Received: 08/06/14 21:45</b>												
Total Coliforms	40000		1.8	1.8	MPN/100 mL	1	AH41231	08/07/14 11:00	08/10/14 13:45	SM9221	AEA	
Fecal Coliforms	18000		1.8	1.8	"	"	"	"	"	"	"	
<b>N4 (14H0430-06) Soil Sampled: 08/06/14 11:18 Received: 08/06/14 21:45</b>												
Total Coliforms	2.3		1.8	1.8	MPN/100 mL	1	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	ND		1.8	1.8	"	"	"	"	"	"	"	U
<b>N5 (14H0430-07) Soil Sampled: 08/06/14 11:17 Received: 08/06/14 21:45</b>												
Total Coliforms	12		1.8	1.8	MPN/100 mL	1	AH41231	08/07/14 11:00	08/10/14 13:45	SM9221	AEA	
Fecal Coliforms	ND		1.8	1.8	"	"	"	"	"	"	"	U
<b>N6 (14H0430-08) Soil Sampled: 08/06/14 11:16 Received: 08/06/14 21:45</b>												
Total Coliforms	2.3		1.8	1.8	MPN/100 mL	1	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	ND		1.8	1.8	"	"	"	"	"	"	"	U

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Volatile Organic Compounds by EPA Method 8260B**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil</b>												<b>R-06</b>
<b>Sampled: 08/06/14 11:04</b>												<b>Received: 08/06/14 21:45</b>
Acetone	ND	0.083	0.69	0.0040	mg/kg	173.2	AH41149	08/11/14 14:46	08/11/14 23:38	EPA 8260B	NBH	U
Benzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Bromobenzene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
Bromochloromethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Bromodichloromethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Bromoform	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Bromomethane	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
n-Butylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
sec-Butylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
tert-Butylbenzene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
Carbon tetrachloride	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Chlorobenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Chloroethane	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
Chloroform	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Chloromethane	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
2-Chlorotoluene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
4-Chlorotoluene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
Dibromochloromethane	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.014	0.17	0.0010	"	"	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Dibromomethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,2-Dichlorobenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Dichlorodifluoromethane	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
1,1-Dichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,2-Dichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,1-Dichloroethene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND	0.021	0.17	0.0010	"	"	"	"	"	"	"	U
1,2-Dichloropropane	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,3-Dichloropropane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Volatile Organic Compounds by EPA Method 8260B**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil    Sampled: 08/06/14 11:04    Received: 08/06/14 21:45</b>												<b>R-06</b>
2,2-Dichloropropane	ND	0.010	0.17	0.0010	mg/kg	173.2	AH41149	08/11/14 14:46	08/11/14 23:38	EPA 8260B	"	U
1,1-Dichloropropene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Ethylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Hexachlorobutadiene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
Isopropylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
p-Isopropyltoluene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Methyl ethyl ketone	ND	0.042	0.52	0.0030	"	"	"	"	"	"	"	U
Methyl isobutyl ketone	ND	0.024	0.35	0.0020	"	"	"	"	"	"	"	U
Methyl tert-butyl ether	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Methylene chloride	ND	0.014	0.17	0.0010	"	"	"	"	"	"	"	U
Naphthalene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
n-Propylbenzene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
Styrene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,1,2-Tetrachloroethane	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Tetrachloroethene	ND	0.014	0.17	0.0010	"	"	"	"	"	"	"	U
Toluene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,4-Trichlorobenzene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,1-Trichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,2-Trichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Trichloroethene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
Trichlorofluoromethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Trichlorotrifluoroethane	ND	0.014	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,3-Trichloropropane	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Vinyl chloride	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
m,p-Xylene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
o-Xylene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Volatile Organic Compounds by EPA Method 8260B**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil</b>												<b>R-06</b>
<b>Sampled: 08/06/14 11:04</b>												
<b>Received: 08/06/14 21:45</b>												
Xylenes (total)	ND	0.010	0.17	0.0010	mg/kg	173.2	AH41149	08/11/14 14:46	08/11/14 23:38	EPA 8260B	"	U
Surrogate: Bromofluorobenzene		139 %		38-163			"	"	"	"	"	
Surrogate: Dibromofluoromethane		130 %		39-154			"	"	"	"	"	
Surrogate: Toluene-d8		144 %		51-161			"	"	"	"	"	

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3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

### Organochlorine Pesticides and PCBs by EPA Method 8081/8082 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil    Sampled: 08/06/14 11:04    Received: 08/06/14 21:45</b>												<b>R-06</b>
Aldrin	ND	0.12	0.88	0.0050	mg/kg	177	AH41415	08/14/14 08:19	08/19/14 21:56	EPA 8081/8082	MCB	U
alpha-BHC	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
beta-BHC	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
delta-BHC	ND	0.11	0.88	0.0050	"	"	"	"	"	"	"	U
gamma-BHC (Lindane)	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
Chlordane (tech)	ND	7.1	35	0.20	"	"	"	"	"	"	"	U
4,4'-DDD	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
4,4'-DDE	ND	0.16	0.88	0.0050	"	"	"	"	"	"	"	U
4,4'-DDT	ND	0.18	0.88	0.0050	"	"	"	"	"	"	"	U
Dieldrin	ND	0.16	0.88	0.0050	"	"	"	"	"	"	"	U
Endosulfan I	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Endosulfan II	ND	0.14	0.88	0.0050	"	"	"	"	"	"	"	U
Endosulfan sulfate	ND	0.18	0.88	0.0050	"	"	"	"	"	"	"	U
Endrin	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Endrin aldehyde	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
Heptachlor	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Heptachlor epoxide	ND	0.18	0.88	0.0050	"	"	"	"	"	"	"	U
Methoxychlor	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Toxaphene	ND	3.5	35	0.20	"	"	"	"	"	"	"	U
PCB-1016	ND	0.010	0.20	0.20	"	1	"	"	08/19/14 21:34	"	"	U
PCB-1221	ND	0.0070	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1232	ND	0.010	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1242	ND	0.0070	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1248	ND	0.020	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1254	ND	0.020	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1260	ND	0.0090	0.20	0.20	"	"	"	"	"	"	"	U
Surrogate: Dibutylchloroendate		192 %		50-120			"	"	08/19/14 21:56	"	"	S-06

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

### Semivolatile Organic Compounds by EPA Method 8270C Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil</b>												<b>R-06</b>
<b>Sampled: 08/06/14 11:04</b>												<b>Received: 08/06/14 21:45</b>
Acenaphthene	ND	2.0	6.2	0.062	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	NBH	U
Acenaphthylene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
Anthracene	ND	1.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzdine	ND	50	160	1.6	"	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	2.0	33	0.33	"	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	5.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzoic acid	ND	60	160	1.6	"	"	"	"	"	"	"	U
Benzyl alcohol	ND	20	66	0.66	"	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	20	33	0.33	"	"	"	"	"	"	"	U
Bis(2-chloroethyl)ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
Bis(2-chloroisopropyl)ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
<b>Bis(2-ethylhexyl)phthalate</b>	<b>36</b>	9.0	33	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
Butyl benzyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
4-Chloro-3-methylphenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
4-Chloroaniline	ND	20	66	0.66	"	"	"	"	"	"	"	U
2-Chloronaphthalene	ND	20	33	0.33	"	"	"	"	"	"	"	U
2-Chlorophenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
Chrysene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
Dibenzofuran	ND	10	33	0.33	"	"	"	"	"	"	"	U
1,2-Dichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	50	66	0.66	"	"	"	"	"	"	"	U
2,4-Dichlorophenol	ND	20	33	0.33	"	"	"	"	"	"	"	U

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Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Semivolatile Organic Compounds by EPA Method 8270C**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil    Sampled: 08/06/14 11:04    Received: 08/06/14 21:45</b>												<b>R-06</b>
Diethyl phthalate	ND	10	33	0.33	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	"	U
Dimethyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
2,4-Dimethylphenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	30	160	1.6	"	"	"	"	"	"	"	U
2,4-Dinitrophenol	ND	20	160	1.6	"	"	"	"	"	"	"	U
2,4-Dinitrotoluene	ND	10	33	0.33	"	"	"	"	"	"	"	U
2,6-Dinitrotoluene	ND	20	33	0.33	"	"	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	20	33	0.33	"	"	"	"	"	"	"	U
Fluoranthene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Fluorene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
Hexachlorobenzene	ND	10	33	0.33	"	"	"	"	"	"	"	U
Hexachlorobutadiene	ND	20	33	0.33	"	"	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	20	160	1.6	"	"	"	"	"	"	"	U
Hexachloroethane	ND	20	33	0.33	"	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
Isophorone	ND	20	33	0.33	"	"	"	"	"	"	"	U
2-Methylnaphthalene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
2-Methylphenol (o-cresol)	ND	20	33	0.33	"	"	"	"	"	"	"	U
3 & 4-Methylphenol (m,p-cresol)	ND	20	33	0.33	"	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	20	33	0.33	"	"	"	"	"	"	"	U
N-Nitrosodimethylamine	ND	30	66	0.66	"	"	"	"	"	"	"	U
N-Nitrosodiphenylamine	ND	20	33	0.33	"	"	"	"	"	"	"	U
Naphthalene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
2-Nitroaniline	ND	20	160	1.6	"	"	"	"	"	"	"	U
3-Nitroaniline	ND	30	160	1.6	"	"	"	"	"	"	"	U
4-Nitroaniline	ND	20	160	1.6	"	"	"	"	"	"	"	U
Nitrobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
2-Nitrophenol	ND	30	160	1.6	"	"	"	"	"	"	"	U
4-Nitrophenol	ND	30	160	1.6	"	"	"	"	"	"	"	U
Pentachlorophenol	ND	20	160	1.6	"	"	"	"	"	"	"	U
Phenanthrene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Phenol	ND	20	33	0.33	"	"	"	"	"	"	"	U

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Semivolatile Organic Compounds by EPA Method 8270C**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil</b>												<b>R-06</b>
<b>Sampled: 08/06/14 11:04</b>												<b>Received: 08/06/14 21:45</b>
Pyrene	ND	3.0	6.2	0.062	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	"	U
1,2,4-Trichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
2,4,5-Trichlorophenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
2,4,6-Trichlorophenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
<i>Surrogate: 2-Fluorobiphenyl</i>		88.8 %		61-117			"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		85.0 %		50-113			"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		92.5 %		47-123			"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		96.2 %		63-133			"	"	"	"	"	
<i>Surrogate: Phenol-d6</i>		77.5 %		49-119			"	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		110 %		52-129			"	"	"	"	"	

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Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Additional Semivolatile Organic Compounds by EPA Method 8270C**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
<b>Composite Drying Beds (14H0430-01) Soil    Sampled: 08/06/14 11:04    Received: 08/06/14 21:45</b>												
Pyridine	ND	15000	50000	500	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	"	R-06, U
Surrogate: 2-Fluorobiphenyl		88.8 %		61-117			"	"	"	"	"	
Surrogate: 2-Fluorophenol		85.0 %		50-113			"	"	"	"	"	
Surrogate: Nitrobenzene-d5		92.5 %		47-123			"	"	"	"	"	
Surrogate: p-Terphenyl-d14		96.2 %		63-133			"	"	"	"	"	
Surrogate: Phenol-d6		77.5 %		49-119			"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		110 %		52-129			"	"	"	"	"	

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3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41336 - EPA 3051 Microwave**

**Blank (AH41336-BLK1)**

Prepared & Analyzed: 08/13/14

Arsenic	ND	0.40	2.0	mg/kg							U
Cadmium	ND	0.070	1.0	"							U
Chromium	ND	0.090	5.0	"							U
Copper	1.92	0.20	10	"							J
Lead	ND	0.10	5.0	"							U
Molybdenum	0.0690	0.050	10	"							J
Nickel	ND	0.20	10	"							U
Phosphorus	ND	3.0	50	"							U
Potassium	ND	2.0	50	"							U
Selenium	ND	0.70	2.0	"							U
Zinc	0.678	0.40	10	"							J

**LCS (AH41336-BS1)**

Prepared & Analyzed: 08/13/14

Arsenic	17.1	0.40	2.0	mg/kg	20.0		85.5	80-120			
Cadmium	18.4	0.070	1.0	"	20.0		92.1	85-115			
Chromium	17.6	0.090	5.0	"	20.0		88.0	85-115			
Copper	19.4	0.20	10	"	21.0		92.6	85-115			
Lead	18.7	0.10	5.0	"	20.0		93.5	85-115			
Molybdenum	17.1	0.050	10	"	20.0		85.7	85-115			
Nickel	17.2	0.20	10	"	20.0		86.2	85-115			
Phosphorus	213	3.0	50	"	200		107	85-115			
Potassium	749	2.0	50	"	800		93.6	85-115			
Selenium	17.2	0.70	2.0	"	20.0		86.0	68-118			
Zinc	19.9	0.40	10	"	20.0		99.5	85-115			

**Duplicate (AH41336-DUP1)**

Source: 14H0164-01

Prepared & Analyzed: 08/13/14

Arsenic	1.22	0.40	2.0	mg/kg	0.991				21.1	20	J
Cadmium	ND	0.070	1.0	"	ND					20	U
Chromium	15.7	0.090	5.0	"	12.3				23.9	20	QM-04
Copper	8.55	0.20	10	"	6.98				20.2	20	J
Lead	2.79	0.10	5.0	"	2.32				18.0	20	J
Molybdenum	0.371	0.050	10	"	0.252				38.2	20	J

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3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

### Metals by EPA 6000/7000 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AH41336 - EPA 3051 Microwave

##### Duplicate (AH41336-DUP1)

Source: 14H0164-01

Prepared & Analyzed: 08/13/14

Nickel	12.1	0.20	10	mg/kg		9.85			20.6	20	QM-04
Phosphorus	75.7	3.0	50	"		59.3			24.2	20	QM-04
Potassium	683	2.0	50	"		493			32.3	20	QM-04
Selenium	ND	0.70	2.0	"		ND				20	U
Zinc	12.5	0.40	10	"		8.81			34.5	20	QM-04

##### Matrix Spike (AH41336-MS1)

Source: 14H0164-01

Prepared & Analyzed: 08/13/14

Arsenic	20.3	0.40	2.0	mg/kg	20.0	0.991	96.7	70-130			
Cadmium	17.9	0.070	1.0	"	20.0	ND	89.4	70-130			
Chromium	33.0	0.090	5.0	"	20.0	12.3	103	70-130			
Copper	29.2	0.20	10	"	21.0	6.98	106	70-130			
Lead	21.4	0.10	5.0	"	20.0	2.32	95.4	70-130			
Molybdenum	19.1	0.050	10	"	20.0	0.252	94.0	70-130			
Nickel	30.4	0.20	10	"	20.0	9.85	103	70-130			
Phosphorus	269	3.0	50	"	200	59.3	105	70-130			
Potassium	1290	2.0	50	"	800	493	99.8	70-130			
Selenium	18.6	0.70	2.0	"	20.0	ND	92.9	7-107			
Zinc	28.1	0.40	10	"	20.0	8.81	96.5	70-130			

##### Matrix Spike (AH41336-MS2)

Source: 14H0959-01

Prepared: 08/13/14 Analyzed: 08/16/14

Arsenic	19.8	0.40	2.0	mg/kg	20.0	ND	98.8	70-130			
Cadmium	18.9	0.070	1.0	"	20.0	ND	94.4	70-130			
Chromium	44.7	0.090	5.0	"	20.0	21.7	115	70-130			
Copper	54.6	0.20	10	"	21.0	32.9	103	70-130			
Lead	20.5	0.10	5.0	"	20.0	1.55	94.9	70-130			
Molybdenum	19.7	0.050	10	"	20.0	0.772	94.6	70-130			
Nickel	45.9	0.20	10	"	20.0	23.2	113	70-130			
Phosphorus	521	3.0	50	"	200	322	99.6	70-130			
Potassium	2330	2.0	50	"	800	1430	113	70-130			
Selenium	19.9	0.70	2.0	"	20.0	1.55	92.0	7-107			
Zinc	107	0.40	10	"	20.0	84.7	112	70-130			

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41336 - EPA 3051 Microwave**

**Matrix Spike Dup (AH41336-MSD1)**

Source: 14H0164-01

Prepared & Analyzed: 08/13/14

Arsenic	19.7	0.40	2.0	mg/kg	20.0	0.991	93.5	70-130	3.18	20	
Cadmium	17.9	0.070	1.0	"	20.0	ND	89.4	70-130	0.00476	20	
Chromium	33.4	0.090	5.0	"	20.0	12.3	105	70-130	1.24	20	
Copper	28.6	0.20	10	"	21.0	6.98	103	70-130	2.03	20	
Lead	20.9	0.10	5.0	"	20.0	2.32	92.7	70-130	2.59	20	
Molybdenum	18.7	0.050	10	"	20.0	0.252	92.3	70-130	1.81	20	
Nickel	29.5	0.20	10	"	20.0	9.85	98.5	70-130	2.80	20	
Phosphorus	252	3.0	50	"	200	59.3	96.6	70-130	6.24	20	
Potassium	1290	2.0	50	"	800	493	99.1	70-130	0.491	20	
Selenium	18.2	0.70	2.0	"	20.0	ND	91.1	7-107	1.96	20	
Zinc	27.9	0.40	10	"	20.0	8.81	95.3	70-130	0.921	20	

**Batch AH41427 - EPA 7471A Hg Soil**

**Blank (AH41427-BLK1)**

Prepared: 08/15/14 Analyzed: 08/18/14

Mercury	ND	0.020	0.20	mg/kg							U
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**LCS (AH41427-BS1)**

Prepared: 08/15/14 Analyzed: 08/18/14

Mercury	0.950	0.020	0.20	mg/kg	1.00		95.0	80-120			
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**Duplicate (AH41427-DUP1)**

Source: 14H0596-04

Prepared: 08/15/14 Analyzed: 08/18/14

Mercury	0.205	0.020	0.20	mg/kg		0.190			7.59	20	
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**Matrix Spike (AH41427-MS1)**

Source: 14H0596-04

Prepared: 08/15/14 Analyzed: 08/18/14

Mercury	1.05	0.020	0.20	mg/kg	1.00	0.190	86.0	60-140			
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**Matrix Spike Dup (AH41427-MSD1)**

Source: 14H0596-04

Prepared: 08/15/14 Analyzed: 08/18/14

Mercury	1.10	0.020	0.20	mg/kg	1.00	0.190	91.0	60-140	4.65	20	
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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41127 - General Preparation**

**Duplicate (AH41127-DUP1)**

Source: 14H0044-01

Prepared & Analyzed: 08/11/14

pH	8.22	1.68	1.68	pH Units		8.22			0.00	20	
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**Batch AH41403 - General Prep**

**LCS (AH41403-BS1)**

Prepared: 08/14/14 Analyzed: 08/18/14

Total Kjeldahl Nitrogen	55500	2.0	10	mg/kg	56600		98.0	80-120			
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**LCS Dup (AH41403-BSD1)**

Prepared: 08/14/14 Analyzed: 08/18/14

Total Kjeldahl Nitrogen	55500	2.0	10	mg/kg	56600		98.0	80-120	0.00	20	
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**Batch AH41410 - General Preparation**

**Blank (AH41410-BLK1)**

Prepared: 08/08/14 Analyzed: 08/13/14

Biochemical Oxygen Demand	ND	2.0	5.0	mg/kg							U
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**LCS (AH41410-BS1)**

Prepared: 08/06/14 Analyzed: 08/11/14

Biochemical Oxygen Demand	206	2.0	5.0	mg/kg	200		103	84-115			
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**Duplicate (AH41410-DUP1)**

Source: 14H0430-01

Prepared: 08/08/14 Analyzed: 08/13/14

Biochemical Oxygen Demand	18600	2.0	5.0	mg/kg		33600			57.7	30	QM-04
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**Batch AH41849 - General Preparation**

**Blank (AH41849-BLK1)**

Prepared & Analyzed: 08/19/14

Ammonia as N	ND	0.050	0.050	mg/kg							U
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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41849 - General Preparation**

**LCS (AH41849-BS1)**

Prepared & Analyzed: 08/19/14

Ammonia as N	5.08	0.050	0.050	mg/kg	5.00		102	90-110			
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**LCS Dup (AH41849-BSD1)**

Prepared & Analyzed: 08/19/14

Ammonia as N	5.08	0.050	0.050	mg/kg	5.00		102	90-110	0.00	10	
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**Batch AH42024 - General Preparation**

**Blank (AH42024-BLK1)**

Prepared: 08/20/14 Analyzed: 08/21/14

% Solids	ND	0.100	0.100	%							U
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**Duplicate (AH42024-DUP1)**

Source: 14H0430-01

Prepared: 08/20/14 Analyzed: 08/21/14

% Solids	96.2	0.100	0.100	%		96.6			0.456	20	
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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Anions by EPA Method 300.0 - Quality Control**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41862 - General Preparation**

**Blank (AH41862-BLK1)**

Prepared & Analyzed: 08/18/14

Nitrate as N	ND	0.40	2.0	mg/kg							U
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**LCS (AH41862-BS1)**

Prepared & Analyzed: 08/18/14

Nitrate as N	52.2	0.40	2.0	mg/kg	50.0		104	90-110			
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**Duplicate (AH41862-DUP1)**

Source: 14H0705-03

Prepared: 08/18/14 Analyzed: 08/19/14

Nitrate as N	6.79	0.40	2.0	mg/kg		6.79			0.00	20	
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**Matrix Spike (AH41862-MS1)**

Source: 14H0705-03

Prepared: 08/18/14 Analyzed: 08/19/14

Nitrate as N	56.3	2.0	10	mg/kg	50.0	6.79	99.0	80-120			
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**Matrix Spike Dup (AH41862-MSD1)**

Source: 14H0705-03

Prepared: 08/18/14 Analyzed: 08/19/14

Nitrate as N	56.3	2.0	10	mg/kg	50.0	6.79	99.0	80-120	0.0401	20	
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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41149 - VOAs in Soil GCMS**

**Blank (AH41149-BLK1)**

Prepared & Analyzed: 08/11/14

**R-11**

Acetone	ND	0.083	0.69	mg/kg							U
Benzene	ND	0.0069	0.17	"							U
Bromobenzene	ND	0.010	0.17	"							U
Bromochloromethane	ND	0.0069	0.17	"							U
Bromodichloromethane	ND	0.0069	0.17	"							U
Bromoform	ND	0.0069	0.17	"							U
Bromomethane	ND	0.010	0.17	"							U
n-Butylbenzene	ND	0.0069	0.17	"							U
sec-Butylbenzene	ND	0.0069	0.17	"							U
tert-Butylbenzene	ND	0.0035	0.17	"							U
Carbon tetrachloride	ND	0.0069	0.17	"							U
Chlorobenzene	ND	0.0069	0.17	"							U
Chloroethane	ND	0.010	0.17	"							U
Chloroform	ND	0.0069	0.17	"							U
Chloromethane	ND	0.010	0.17	"							U
2-Chlorotoluene	ND	0.0069	0.17	"							U
4-Chlorotoluene	ND	0.0035	0.17	"							U
Dibromochloromethane	ND	0.0035	0.17	"							U
1,2-Dibromo-3-chloropropane	ND	0.014	0.17	"							U
1,2-Dibromoethane (EDB)	ND	0.0069	0.17	"							U
Dibromomethane	ND	0.0069	0.17	"							U
1,2-Dichlorobenzene	ND	0.0069	0.17	"							U
1,3-Dichlorobenzene	ND	0.0069	0.17	"							U
1,4-Dichlorobenzene	ND	0.0069	0.17	"							U
Dichlorodifluoromethane	ND	0.010	0.17	"							U
1,1-Dichloroethane	ND	0.0069	0.17	"							U
1,2-Dichloroethane	ND	0.0069	0.17	"							U
1,1-Dichloroethene	ND	0.0035	0.17	"							U
cis-1,2-Dichloroethene	ND	0.0069	0.17	"							U
trans-1,2-Dichloroethene	ND	0.021	0.17	"							U
1,2-Dichloropropane	ND	0.0035	0.17	"							U

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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41149 - VOAs in Soil GCMS**

**Blank (AH41149-BLK1)**

Prepared & Analyzed: 08/11/14

**R-11**

1,3-Dichloropropane	ND	0.0069	0.17	mg/kg							U
2,2-Dichloropropane	ND	0.010	0.17	"							U
1,1-Dichloropropene	ND	0.010	0.17	"							U
cis-1,3-Dichloropropene	ND	0.0069	0.17	"							U
trans-1,3-Dichloropropene	ND	0.0069	0.17	"							U
Ethylbenzene	ND	0.0069	0.17	"							U
Hexachlorobutadiene	ND	0.010	0.17	"							U
Isopropylbenzene	ND	0.0069	0.17	"							U
p-Isopropyltoluene	ND	0.0069	0.17	"							U
Methyl ethyl ketone	ND	0.042	0.52	"							U
Methyl isobutyl ketone	ND	0.024	0.35	"							U
Methyl tert-butyl ether	ND	0.0069	0.17	"							U
Methylene chloride	ND	0.014	0.17	"							U
Naphthalene	ND	0.0069	0.17	"							U
n-Propylbenzene	ND	0.0035	0.17	"							U
Styrene	ND	0.0035	0.17	"							U
1,1,1,2-Tetrachloroethane	ND	0.0035	0.17	"							U
1,1,2,2-Tetrachloroethane	ND	0.0069	0.17	"							U
Tetrachloroethene	ND	0.014	0.17	"							U
Toluene	ND	0.0069	0.17	"							U
1,2,3-Trichlorobenzene	ND	0.010	0.17	"							U
1,2,4-Trichlorobenzene	ND	0.010	0.17	"							U
1,1,1-Trichloroethane	ND	0.0069	0.17	"							U
1,1,2-Trichloroethane	ND	0.0069	0.17	"							U
Trichloroethene	ND	0.010	0.17	"							U
Trichlorofluoromethane	ND	0.0069	0.17	"							U
Trichlorotrifluoroethane	ND	0.014	0.17	"							U
1,2,3-Trichloropropane	ND	0.0035	0.17	"							U
1,2,4-Trimethylbenzene	ND	0.0035	0.17	"							U
1,3,5-Trimethylbenzene	ND	0.0069	0.17	"							U
Vinyl chloride	ND	0.010	0.17	"							U

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Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41149 - VOAs in Soil GCMS**

**Blank (AH41149-BLK1)**

Prepared & Analyzed: 08/11/14

**R-11**

m,p-Xylene	ND	0.010	0.17	mg/kg							U
o-Xylene	ND	0.0035	0.17	"							U
Xylenes (total)	ND	0.010	0.17	"							U
<i>Surrogate: Bromofluorobenzene</i>	5.45			"	4.32		126	38-163			
<i>Surrogate: Dibromofluoromethane</i>	5.53			"	4.32		128	39-154			
<i>Surrogate: Toluene-d8</i>	5.87			"	4.32		136	51-161			

**LCS (AH41149-BS1)**

Prepared & Analyzed: 08/11/14

Benzene	5.34	0.0069	0.17	mg/kg	5.00		107	58-143			
Chlorobenzene	5.17	0.0069	0.17	"	5.00		103	76-145			
1,1-Dichloroethene	5.33	0.0035	0.17	"	5.00		107	77-142			
Toluene	5.42	0.0069	0.17	"	5.00		108	55-158			
Trichloroethene	5.02	0.010	0.17	"	5.00		100	71-139			
<i>Surrogate: Bromofluorobenzene</i>	5.66			"	4.32		131	38-163			
<i>Surrogate: Dibromofluoromethane</i>	5.43			"	4.32		126	39-154			
<i>Surrogate: Toluene-d8</i>	5.93			"	4.32		137	51-161			

**LCS Dup (AH41149-BSD1)**

Prepared & Analyzed: 08/11/14

Benzene	6.37	0.0069	0.17	mg/kg	5.00		127	58-143	17.6	25	
Chlorobenzene	6.15	0.0069	0.17	"	5.00		123	76-145	17.3	25	
1,1-Dichloroethene	6.28	0.0035	0.17	"	5.00		126	77-142	16.3	25	
Toluene	6.39	0.0069	0.17	"	5.00		128	55-158	16.5	25	
Trichloroethene	5.98	0.010	0.17	"	5.00		120	71-139	17.5	25	
<i>Surrogate: Bromofluorobenzene</i>	5.90			"	4.32		137	38-163			
<i>Surrogate: Dibromofluoromethane</i>	5.71			"	4.32		132	39-154			
<i>Surrogate: Toluene-d8</i>	6.24			"	4.32		144	51-161			

**Matrix Spike (AH41149-MS1)**

Source: 14H0430-01

Prepared & Analyzed: 08/11/14

Benzene	5.54	0.0069	0.17	mg/kg	4.63	ND	120	37-149			
Chlorobenzene	5.47	0.0069	0.17	"	4.63	ND	118	44-157			
1,1-Dichloroethene	5.60	0.0035	0.17	"	4.63	ND	121	38-165			
Toluene	5.72	0.0069	0.17	"	4.63	ND	124	22-166			

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41149 - VOAs in Soil GCMS**

**Matrix Spike (AH41149-MS1)**

Source: 14H0430-01

Prepared & Analyzed: 08/11/14

Trichloroethene	5.33	0.010	0.17	mg/kg	4.63	ND	115	51-146			
Surrogate: Bromofluorobenzene	5.37			"	4.00		134	38-163			
Surrogate: Dibromofluoromethane	4.97			"	4.00		124	39-154			
Surrogate: Toluene-d8	5.48			"	4.00		137	51-161			

**Matrix Spike Dup (AH41149-MSD1)**

Source: 14H0430-01

Prepared & Analyzed: 08/11/14

Benzene	5.32	0.0069	0.17	mg/kg	4.63	ND	115	37-149	4.01	25	
Chlorobenzene	5.27	0.0069	0.17	"	4.63	ND	114	44-157	3.76	25	
1,1-Dichloroethene	5.22	0.0035	0.17	"	4.63	ND	113	38-165	7.02	25	
Toluene	5.49	0.0069	0.17	"	4.63	ND	119	22-166	4.03	25	
Trichloroethene	5.10	0.010	0.17	"	4.63	ND	110	51-146	4.52	25	
Surrogate: Bromofluorobenzene	5.12			"	4.00		128	38-163			
Surrogate: Dibromofluoromethane	4.77			"	4.00		119	39-154			
Surrogate: Toluene-d8	5.27			"	4.00		132	51-161			

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3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

## Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch AH41415 - EPA 3540C Soxhlet

#### Blank (AH41415-BLK1)

Prepared: 08/14/14 Analyzed: 08/19/14

Aldrin	ND	0.00070	0.0050	mg/kg							U
alpha-BHC	ND	0.00070	0.0050	"							U
beta-BHC	ND	0.00070	0.0050	"							U
delta-BHC	ND	0.00060	0.0050	"							U
gamma-BHC (Lindane)	ND	0.00070	0.0050	"							U
Chlordane (tech)	ND	0.040	0.20	"							U
4,4'-DDD	ND	0.0020	0.0050	"							U
4,4'-DDE	ND	0.00090	0.0050	"							U
4,4'-DDT	ND	0.0010	0.0050	"							U
Dieldrin	ND	0.00090	0.0050	"							U
Endosulfan I	ND	0.0020	0.0050	"							U
Endosulfan II	ND	0.00080	0.0050	"							U
Endosulfan sulfate	ND	0.0010	0.0050	"							U
Endrin	ND	0.0020	0.0050	"							U
Endrin aldehyde	ND	0.00070	0.0050	"							U
Heptachlor	ND	0.0020	0.0050	"							U
Heptachlor epoxide	ND	0.0010	0.0050	"							U
Methoxychlor	ND	0.0020	0.0050	"							U
Toxaphene	ND	0.020	0.20	"							U
PCB-1016	ND	0.010	0.20	"							U
PCB-1221	ND	0.0070	0.20	"							U
PCB-1232	ND	0.010	0.20	"							U
PCB-1242	ND	0.0070	0.20	"							U
PCB-1248	ND	0.020	0.20	"							U
PCB-1254	ND	0.020	0.20	"							U
PCB-1260	ND	0.0090	0.20	"							U

Surrogate: Dibutylchloride 0.0356 " 0.0378 94.2 50-120

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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

## Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch AH41415 - EPA 3540C Soxhlet

#### LCS (AH41415-BS1)

Prepared: 08/14/14 Analyzed: 08/19/14

Aldrin	0.0110	0.00070	0.0050	mg/kg	0.0120		91.6	30-143			
alpha-BHC	0.0109	0.00070	0.0050	"	0.0120		91.2	18-155			
beta-BHC	0.0120	0.00070	0.0050	"	0.0120		100	25-190			
delta-BHC	0.0108	0.00060	0.0050	"	0.0120		90.0	33-157			
gamma-BHC (Lindane)	0.0103	0.00070	0.0050	"	0.0120		86.1	33-134			
4,4'-DDD	0.0126	0.0020	0.0050	"	0.0120		105	41-139			
4,4'-DDE	0.0115	0.00090	0.0050	"	0.0120		96.0	39-146			
4,4'-DDT	0.0133	0.0010	0.0050	"	0.0120		111	42-146			
Dieldrin	0.0122	0.00090	0.0050	"	0.0120		101	39-138			
Endosulfan I	0.0124	0.0020	0.0050	"	0.0120		103	39-146			
Endosulfan II	0.0124	0.00080	0.0050	"	0.0120		103	43-142			
Endosulfan sulfate	0.0131	0.0010	0.0050	"	0.0120		109	45-148			
Endrin	0.00705	0.0020	0.0050	"	0.0120		58.8	41-164			
Endrin aldehyde	0.0113	0.00070	0.0050	"	0.0120		94.4	16-166			
Heptachlor	0.0128	0.0020	0.0050	"	0.0120		106	33-148			
Heptachlor epoxide	0.0116	0.0010	0.0050	"	0.0120		96.5	37-142			
Methoxychlor	0.0147	0.0020	0.0050	"	0.0120		123	36-148			
Surrogate: Dibutylchloroendate	0.0371			"	0.0378		98.2	50-120			

#### LCS Dup (AH41415-BS1)

Prepared: 08/14/14 Analyzed: 08/19/14

Aldrin	0.0112	0.00070	0.0050	mg/kg	0.0120		93.5	30-143	2.07	30	
alpha-BHC	0.0113	0.00070	0.0050	"	0.0120		94.3	18-155	3.40	30	
beta-BHC	0.0121	0.00070	0.0050	"	0.0120		101	25-190	0.550	30	
delta-BHC	0.0112	0.00060	0.0050	"	0.0120		93.5	33-157	3.79	30	
gamma-BHC (Lindane)	0.0116	0.00070	0.0050	"	0.0120		96.9	33-134	11.8	30	
4,4'-DDD	0.0132	0.0020	0.0050	"	0.0120		110	41-139	4.73	30	
4,4'-DDE	0.0119	0.00090	0.0050	"	0.0120		98.8	39-146	2.88	30	
4,4'-DDT	0.0148	0.0010	0.0050	"	0.0120		123	42-146	10.3	30	
Dieldrin	0.0122	0.00090	0.0050	"	0.0120		101	39-138	0.0835	30	
Endosulfan I	0.0127	0.0020	0.0050	"	0.0120		106	39-146	2.81	30	
Endosulfan II	0.0128	0.00080	0.0050	"	0.0120		106	43-142	3.01	30	

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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

## Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch AH41415 - EPA 3540C Soxhlet

#### LCS Dup (AH41415-BSD1)

Prepared: 08/14/14 Analyzed: 08/19/14

Endosulfan sulfate	0.0136	0.0010	0.0050	mg/kg	0.0120		114	45-148	3.81	30	
Endrin	0.00573	0.0020	0.0050	"	0.0120		47.8	41-164	20.6	30	
Endrin aldehyde	0.0120	0.00070	0.0050	"	0.0120		99.7	16-166	5.44	30	
Heptachlor	0.0133	0.0020	0.0050	"	0.0120		111	33-148	4.00	30	
Heptachlor epoxide	0.0120	0.0010	0.0050	"	0.0120		99.7	37-142	3.22	30	
Methoxychlor	0.0159	0.0020	0.0050	"	0.0120		133	36-148	7.80	30	
Surrogate: Dibutylchloroendate	0.0393			"	0.0378		104	50-120			

#### Matrix Spike (AH41415-MS1)

Source: 14H0430-01

Prepared: 08/14/14 Analyzed: 08/19/14

QM-05

Aldrin	ND	0.014	0.10	mg/kg	0.0120	ND		51-122			U
alpha-BHC	ND	0.014	0.10	"	0.0120	ND		54-116			U
beta-BHC	0.0489	0.014	0.10	"	0.0120	ND	408	27-193			J
delta-BHC	0.0215	0.012	0.10	"	0.0120	ND	179	64-141			J
gamma-BHC (Lindane)	ND	0.014	0.10	"	0.0120	ND		55-121			U
4,4'-DDD	0.0420	0.040	0.10	"	0.0120	ND	350	46-144			J
4,4'-DDE	ND	0.018	0.10	"	0.0120	ND		57-128			U
4,4'-DDT	0.0269	0.020	0.10	"	0.0120	ND	224	44-154			J
Dieldrin	ND	0.018	0.10	"	0.0120	ND		58-124			U
Endosulfan I	ND	0.040	0.10	"	0.0120	ND		58-125			U
Endosulfan II	ND	0.016	0.10	"	0.0120	ND		51-139			U
Endosulfan sulfate	ND	0.020	0.10	"	0.0120	ND		51-138			U
Endrin	ND	0.040	0.10	"	0.0120	ND		55-158			U
Endrin aldehyde	ND	0.014	0.10	"	0.0120	ND		34-146			U
Heptachlor	ND	0.040	0.10	"	0.0120	ND		42-150			U
Heptachlor epoxide	ND	0.020	0.10	"	0.0120	ND		53-120			U
Methoxychlor	ND	0.040	0.10	"	0.0120	ND		41-157			U
Surrogate: Dibutylchloroendate	0.0664			"	0.0378		176	50-120			

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41415 - EPA 3540C Soxhlet**

Matrix Spike Dup (AH41415-MSD1)	Source: 14H0430-01		Prepared: 08/14/14 Analyzed: 08/19/14				QM-05			
Aldrin	0.0145	0.014	0.10	mg/kg	0.0120	ND	121	51-122	30	J
alpha-BHC	ND	0.014	0.10	"	0.0120	ND		54-116	30	U
beta-BHC	0.0217	0.014	0.10	"	0.0120	ND	181	27-193	30	J
delta-BHC	0.0196	0.012	0.10	"	0.0120	ND	163	64-141	30	J
gamma-BHC (Lindane)	ND	0.014	0.10	"	0.0120	ND		55-121	30	U
4,4'-DDD	0.0535	0.040	0.10	"	0.0120	ND	445	46-144	30	J
4,4'-DDE	ND	0.018	0.10	"	0.0120	ND		57-128	30	U
4,4'-DDT	0.0267	0.020	0.10	"	0.0120	ND	222	44-154	30	J
Dieldrin	ND	0.018	0.10	"	0.0120	ND		58-124	30	U
Endosulfan I	ND	0.040	0.10	"	0.0120	ND		58-125	30	U
Endosulfan II	ND	0.016	0.10	"	0.0120	ND		51-139	30	U
Endosulfan sulfate	ND	0.020	0.10	"	0.0120	ND		51-138	30	U
Endrin	ND	0.040	0.10	"	0.0120	ND		55-158	30	U
Endrin aldehyde	ND	0.014	0.10	"	0.0120	ND		34-146	30	U
Heptachlor	ND	0.040	0.10	"	0.0120	ND		42-150	30	U
Heptachlor epoxide	ND	0.020	0.10	"	0.0120	ND		53-120	30	U
Methoxychlor	ND	0.040	0.10	"	0.0120	ND		41-157	30	U
Surrogate: Dibutylchloroate	0.0674			"	0.0378		178	50-120		

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

## Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch AH41320 - EPA 3540C Soxhlet MS

#### Blank (AH41320-BLK1)

Prepared: 08/13/14 Analyzed: 08/20/14

Acenaphthene	ND	0.020	0.062	mg/kg							U
Acenaphthylene	ND	0.020	0.062	"							U
Anthracene	ND	0.010	0.062	"							U
Benzidine	ND	0.50	1.6	"							U
Benzo (a) anthracene	ND	0.020	0.33	"							U
Benzo (a) pyrene	ND	0.030	0.062	"							U
Benzo (b) fluoranthene	ND	0.030	0.062	"							U
Benzo (g,h,i) perylene	ND	0.030	0.062	"							U
Benzo (k) fluoranthene	ND	0.050	0.062	"							U
Benzoic acid	ND	0.60	1.6	"							U
Benzyl alcohol	ND	0.20	0.66	"							U
Bis(2-chloroethoxy)methane	ND	0.20	0.33	"							U
Bis(2-chloroethyl)ether	ND	0.20	0.33	"							U
Bis(2-chloroisopropyl)ether	ND	0.20	0.33	"							U
Bis(2-ethylhexyl)phthalate	ND	0.090	0.33	"							U
4-Bromophenyl phenyl ether	ND	0.20	0.33	"							U
Butyl benzyl phthalate	ND	0.20	0.33	"							U
4-Chloro-3-methylphenol	ND	0.20	0.33	"							U
4-Chloroaniline	ND	0.20	0.66	"							U
2-Chloronaphthalene	ND	0.20	0.33	"							U
2-Chlorophenol	ND	0.20	0.33	"							U
4-Chlorophenyl phenyl ether	ND	0.20	0.33	"							U
Chrysene	ND	0.030	0.062	"							U
Di-n-butyl phthalate	ND	0.20	0.33	"							U
Di-n-octyl phthalate	ND	0.20	0.33	"							U
Dibenz (a,h) anthracene	ND	0.020	0.062	"							U
Dibenzofuran	ND	0.10	0.33	"							U
1,2-Dichlorobenzene	ND	0.20	0.33	"							U
1,3-Dichlorobenzene	ND	0.20	0.33	"							U
1,4-Dichlorobenzene	ND	0.20	0.33	"							U
3,3'-Dichlorobenzidine	ND	0.50	0.66	"							U

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Tracy CA, 95304  
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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41320 - EPA 3540C Soxhlet MS**

**Blank (AH41320-BLK1)**

Prepared: 08/13/14 Analyzed: 08/20/14

2,4-Dichlorophenol	ND	0.20	0.33	mg/kg							U
Diethyl phthalate	ND	0.10	0.33	"							U
Dimethyl phthalate	ND	0.20	0.33	"							U
2,4-Dimethylphenol	ND	0.20	0.33	"							U
4,6-Dinitro-2-methylphenol	ND	0.30	1.6	"							U
2,4-Dinitrophenol	ND	0.20	1.6	"							U
2,4-Dinitrotoluene	ND	0.10	0.33	"							U
2,6-Dinitrotoluene	ND	0.20	0.33	"							U
1,2-Diphenylhydrazine	ND	0.20	0.33	"							U
Fluoranthene	ND	0.030	0.062	"							U
Fluorene	ND	0.020	0.062	"							U
Hexachlorobenzene	ND	0.10	0.33	"							U
Hexachlorobutadiene	ND	0.20	0.33	"							U
Hexachlorocyclopentadiene	ND	0.20	1.6	"							U
Hexachloroethane	ND	0.20	0.33	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	0.062	"							U
Isophorone	ND	0.20	0.33	"							U
2-Methylnaphthalene	ND	0.020	0.062	"							U
2-Methylphenol (o-cresol)	ND	0.20	0.33	"							U
3 & 4-Methylphenol (m,p-cresol)	ND	0.20	0.33	"							U
N-Nitrosodi-n-propylamine	ND	0.20	0.33	"							U
N-Nitrosodimethylamine	ND	0.30	0.66	"							U
N-Nitrosodiphenylamine	ND	0.20	0.33	"							U
Naphthalene	ND	0.020	0.062	"							U
2-Nitroaniline	ND	0.20	1.6	"							U
3-Nitroaniline	ND	0.30	1.6	"							U
4-Nitroaniline	ND	0.20	1.6	"							U
Nitrobenzene	ND	0.20	0.33	"							U
2-Nitrophenol	ND	0.30	1.6	"							U
4-Nitrophenol	ND	0.30	1.6	"							U
Pentachlorophenol	ND	0.20	1.6	"							U

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Project Number: [none]

Reported:  
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41320 - EPA 3540C Soxhlet MS**

**Blank (AH41320-BLK1)**

Prepared: 08/13/14 Analyzed: 08/20/14

Phenanthrene	ND	0.030	0.062	mg/kg							U
Phenol	ND	0.20	0.33	"							U
Pyrene	ND	0.030	0.062	"							U
1,2,4-Trichlorobenzene	ND	0.20	0.33	"							U
2,4,5-Trichlorophenol	ND	0.20	0.33	"							U
2,4,6-Trichlorophenol	ND	0.20	0.33	"							U
Surrogate: 2-Fluorobiphenyl	2.97			"	4.00		74.3	61-117			
Surrogate: 2-Fluorophenol	2.69			"	4.00		67.2	50-113			
Surrogate: Nitrobenzene-d5	2.79			"	4.00		69.8	47-123			
Surrogate: p-Terphenyl-d14	3.15			"	4.00		78.8	63-133			
Surrogate: Phenol-d6	2.67			"	4.00		66.7	49-119			
Surrogate: 2,4,6-Tribromophenol	3.51			"	4.00		87.7	52-129			

**LCS (AH41320-BS1)**

Prepared: 08/13/14 Analyzed: 08/20/14

Acenaphthene	1.30	0.020	0.062	mg/kg	2.00		65.0	35-90			
4-Chloro-3-methylphenol	2.95	0.20	0.33	"	4.00		73.6	55-105			
2-Chlorophenol	2.81	0.20	0.33	"	4.00		70.2	55-100			
1,4-Dichlorobenzene	1.37	0.20	0.33	"	2.00		68.6	55-100			
2,4-Dinitrotoluene	1.38	0.10	0.33	"	2.00		69.1	65-100			
N-Nitrosodi-n-propylamine	1.11	0.20	0.33	"	2.00		55.7	45-80			
4-Nitrophenol	3.06	0.30	1.6	"	4.00		76.6	60-110			
Pentachlorophenol	3.84	0.20	1.6	"	4.00		96.0	42-125			
Phenol	2.72	0.20	0.33	"	4.00		67.9	54-95			
Pyrene	1.37	0.030	0.062	"	2.00		68.7	50-100			
1,2,4-Trichlorobenzene	1.38	0.20	0.33	"	2.00		69.0	55-95			
Surrogate: 2-Fluorobiphenyl	3.36			"	4.00		84.0	61-117			
Surrogate: 2-Fluorophenol	3.16			"	4.00		78.9	50-113			
Surrogate: Nitrobenzene-d5	3.21			"	4.00		80.3	47-123			
Surrogate: p-Terphenyl-d14	3.44			"	4.00		85.9	63-133			
Surrogate: Phenol-d6	3.04			"	4.00		76.0	49-119			
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129			

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Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41320 - EPA 3540C Soxhlet MS**

**LCS Dup (AH41320-BSD1)**

Prepared: 08/13/14 Analyzed: 08/20/14

Acenaphthene	1.43	0.020	0.062	mg/kg	2.00		71.6	35-90	9.52	25	
4-Chloro-3-methylphenol	3.29	0.20	0.33	"	4.00		82.2	55-105	11.0	25	
2-Chlorophenol	3.16	0.20	0.33	"	4.00		79.1	55-100	11.9	25	
1,4-Dichlorobenzene	1.56	0.20	0.33	"	2.00		77.8	55-100	12.6	25	
2,4-Dinitrotoluene	1.54	0.10	0.33	"	2.00		76.8	65-100	10.6	25	
N-Nitrosodi-n-propylamine	1.26	0.20	0.33	"	2.00		63.1	45-80	12.5	25	
4-Nitrophenol	3.40	0.30	1.6	"	4.00		85.0	60-110	10.4	25	
Pentachlorophenol	4.16	0.20	1.6	"	4.00		104	42-125	7.96	25	
Phenol	3.00	0.20	0.33	"	4.00		75.0	54-95	10.0	25	
Pyrene	1.44	0.030	0.062	"	2.00		72.1	50-100	4.83	25	
1,2,4-Trichlorobenzene	1.55	0.20	0.33	"	2.00		77.6	55-95	11.8	25	
Surrogate: 2-Fluorobiphenyl	3.45			"	4.00		86.2	61-117			
Surrogate: 2-Fluorophenol	3.33			"	4.00		83.2	50-113			
Surrogate: Nitrobenzene-d5	3.32			"	4.00		83.1	47-123			
Surrogate: p-Terphenyl-d14	3.41			"	4.00		85.3	63-133			
Surrogate: Phenol-d6	3.12			"	4.00		78.0	49-119			
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129			

**Matrix Spike (AH41320-MS1)**

Source: 14H0430-01

Prepared: 08/13/14 Analyzed: 08/20/14

QM-05

Acenaphthene	1.65	1.0	3.1	mg/kg	2.00	ND	82.5	35-90			J
4-Chloro-3-methylphenol	ND	10	16	"	4.00	ND		55-105			U
2-Chlorophenol	ND	10	16	"	4.00	ND		55-100			U
1,4-Dichlorobenzene	ND	10	16	"	2.00	ND		55-100			U
2,4-Dinitrotoluene	ND	5.0	16	"	2.00	ND		65-100			U
N-Nitrosodi-n-propylamine	ND	10	16	"	2.00	ND		45-80			U
4-Nitrophenol	ND	15	80	"	4.00	ND		60-110			U
Pentachlorophenol	16.2	10	80	"	4.00	ND	404	60-115			J
Phenol	ND	10	16	"	4.00	ND		55-100			U
Pyrene	1.65	1.5	3.1	"	2.00	ND	82.5	50-100			J
1,2,4-Trichlorobenzene	ND	10	16	"	2.00	ND		55-95			U
Surrogate: 2-Fluorobiphenyl	3.70			"	4.00		92.5	61-117			

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Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41320 - EPA 3540C Soxhlet MS**

<b>Matrix Spike (AH41320-MS1)</b>		<b>Source: 14H0430-01</b>		Prepared: 08/13/14 Analyzed: 08/20/14				<b>QM-05</b>		
Surrogate: 2-Fluorophenol	3.55			mg/kg	4.00		88.8	50-113		
Surrogate: Nitrobenzene-d5	3.60			"	4.00		90.0	47-123		
Surrogate: p-Terphenyl-d14	3.60			"	4.00		90.0	63-133		
Surrogate: Phenol-d6	3.50			"	4.00		87.5	49-119		
Surrogate: 2,4,6-Tribromophenol	4.10			"	4.00		102	52-129		

<b>Matrix Spike Dup (AH41320-MSD1)</b>		<b>Source: 14H0430-01</b>		Prepared: 08/13/14 Analyzed: 08/20/14				<b>QM-05</b>		
Acenaphthene	1.55	1.0	3.1	mg/kg	2.00	ND	77.5	35-90	25	J
4-Chloro-3-methylphenol	ND	10	16	"	4.00	ND		55-105	25	U
2-Chlorophenol	ND	10	16	"	4.00	ND		55-100	25	U
1,4-Dichlorobenzene	ND	10	16	"	2.00	ND		55-100	25	U
2,4-Dinitrotoluene	ND	5.0	16	"	2.00	ND		65-100	25	U
N-Nitrosodi-n-propylamine	ND	10	16	"	2.00	ND		45-80	25	U
4-Nitrophenol	ND	15	80	"	4.00	ND		60-110	25	U
Pentachlorophenol	16.4	10	80	"	4.00	ND	409	60-115	25	J
Phenol	ND	10	16	"	4.00	ND		55-100	25	U
Pyrene	1.70	1.5	3.1	"	2.00	ND	85.0	50-100	25	J
1,2,4-Trichlorobenzene	ND	10	16	"	2.00	ND		55-95	25	U
Surrogate: 2-Fluorobiphenyl	3.80			"	4.00		95.0	61-117		
Surrogate: 2-Fluorophenol	3.40			"	4.00		85.0	50-113		
Surrogate: Nitrobenzene-d5	3.65			"	4.00		91.2	47-123		
Surrogate: p-Terphenyl-d14	3.90			"	4.00		97.5	63-133		
Surrogate: Phenol-d6	3.40			"	4.00		85.0	49-119		
Surrogate: 2,4,6-Tribromophenol	4.70			"	4.00		118	52-129		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

**Additional Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AH41320 - EPA 3540C Soxhlet MS**

**Blank (AH41320-BLK1)**

Prepared: 08/13/14 Analyzed: 08/20/14

Pyridine	ND	150	500	mg/kg							U
Surrogate: 2-Fluorobiphenyl	2.97			"	4.00		74.3	61-117			
Surrogate: 2-Fluorophenol	2.69			"	4.00		67.2	50-113			
Surrogate: Nitrobenzene-d5	2.79			"	4.00		69.8	47-123			
Surrogate: p-Terphenyl-d14	3.15			"	4.00		78.8	63-133			
Surrogate: Phenol-d6	2.67			"	4.00		66.7	49-119			
Surrogate: 2,4,6-Tribromophenol	3.51			"	4.00		87.7	52-129			

**LCS (AH41320-BS1)**

Prepared: 08/13/14 Analyzed: 08/20/14

Surrogate: 2-Fluorobiphenyl	3.36			mg/kg	4.00		84.0	61-117			
Surrogate: 2-Fluorophenol	3.16			"	4.00		78.9	50-113			
Surrogate: Nitrobenzene-d5	3.21			"	4.00		80.3	47-123			
Surrogate: p-Terphenyl-d14	3.44			"	4.00		85.9	63-133			
Surrogate: Phenol-d6	3.04			"	4.00		76.0	49-119			
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129			

**LCS Dup (AH41320-BSD1)**

Prepared: 08/13/14 Analyzed: 08/20/14

Surrogate: 2-Fluorobiphenyl	3.45			mg/kg	4.00		86.2	61-117			
Surrogate: 2-Fluorophenol	3.33			"	4.00		83.2	50-113			
Surrogate: Nitrobenzene-d5	3.32			"	4.00		83.1	47-123			
Surrogate: p-Terphenyl-d14	3.41			"	4.00		85.3	63-133			
Surrogate: Phenol-d6	3.12			"	4.00		78.0	49-119			
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129			

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alpha

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Tracy, City of - Water Treatment Plant  
Tracy CA, 95304  
3900 Holly Drive

Project Manager: Erich Delmas  
Project: WWTP Sludge Drying Beds  
Project Number: [none]

Reported:  
08/21/14 16:15

### Notes and Definitions

- > > 16000000
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-04 High RPD and/or poor percent recovery may reflect sample non-homogeneity.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- R-06 The Reporting Limits for this analysis have been raised to account for matrix interference.
- R-11 All samples and QC in the batch were analyzed to meet high-level reporting limits.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- MDL Method Detection Limit
- ML Minimum Level. The concentration equivalent to the lowest calibration standard, if all method specified weights, volumes, and processing steps have been followed.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RL Reporting Limit
- RPD Relative Percent Difference



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# Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Lab No. 1470430 Page      of     

Report to:		Invoice to (if different):		Project Info for Report:		Signature below authorizes work under terms stated on reverse side.																																													
Company:		Company:		Project ID:		Analyses Requested						TAT		Lab Approval Required For Rush TATs	Sample Notes (lab use only)																																				
Tracy, City of - WTP				WWTP SLUDGE DRYING BEDS		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> <td>Cd, Cr, Cu, K, Mo, Ni, Pb, Zn - 6010</td> <td>Phosphorus (Total P) - 6010</td> <td>As - 7060, Hg - 7471, Se - 7740</td> <td>BOD, NO3 as N, TKN, Ammonia as N</td> <td>8081/8082 Pesticides &amp; PCB's</td> <td>8260 VOC's</td> <td>8270 SVOC full list</td> <td>8270 Pyridine</td> <td>percent solids / pH</td> <td>Coliform - Total/Fecal Hi Dilution</td> <td>include j-flag MDL reporting</td> <td rowspan="3">           10 days <input checked="" type="radio"/>            RUSH:            5 days <input type="radio"/>            48 hours <input type="radio"/>            Other: <input type="radio"/> days  <input type="radio"/> </td> <td rowspan="3">Temperature: <u>48</u> deg. C</td> </tr> <tr> <td colspan="12">Shipment Method:</td> </tr> <tr> <td colspan="12">Custody Seals: Y / N</td> </tr> </table>						Total Number of Containers	Cd, Cr, Cu, K, Mo, Ni, Pb, Zn - 6010	Phosphorus (Total P) - 6010	As - 7060, Hg - 7471, Se - 7740	BOD, NO3 as N, TKN, Ammonia as N	8081/8082 Pesticides & PCB's	8260 VOC's	8270 SVOC full list	8270 Pyridine	percent solids / pH	Coliform - Total/Fecal Hi Dilution	include j-flag MDL reporting	10 days <input checked="" type="radio"/> RUSH: 5 days <input type="radio"/> 48 hours <input type="radio"/> Other: <input type="radio"/> days <input type="radio"/>	Temperature: <u>48</u> deg. C	Shipment Method:												Custody Seals: Y / N												Temperature: <u>48</u> deg. C	
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Address:		Address:		PO/Reference :																																															
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Phone/Fax:		Phone/Fax:																																																	
209.831.4488 / 209.831.4484																																																			
Email Address:		Email Address:																																																	
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Samplers Signature:		Container:		Preservative:		Matrix:																																													
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Print: Erich Delmas		Poly		HNO3		Soil																																													
		Amber		H2SO4		Other																																													
		4oz clear jar		Other		None																																													
		8oz clear jar		None		Other																																													
Sample Identification		Sampled: Date Time		Total Number of Containers																																															
COMPOSITE DRYING BEDS		8/6/14 1104		4																																															
S3		8/6/14 1108		1																																															
S4		8/6/14 1106		1																																															
S5		8/6/14 1105		1																																															
S6		8/6/14 1102		1																																															
N4		8/6/14 1118		1																																															
N5		8/6/14 1117		1																																															
N6		8/6/14 1116		1																																															
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				8/6/14		1229		State System Number: _____																																											
				8-6-14		1910		If "Y" please enter the Source Number(s) in the column above																																											
				8-6-14		2145		CA Geotracker EDF Report? <input type="radio"/> Yes <input checked="" type="radio"/> No																																											
								Global ID: _____ Sampling Company Log Code: _____																																											
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