



PDC Laboratories, Inc.

3278 N Highway 67 • Florissant, MO 63033
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Michael Keen

Date Received: 09/02/14 15:10
Report Date: 09/04/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4090173-01**
Sample Description: **TK-205**

Collect Date: **09/02/14 08:10**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.25 mg/L		09/03/14 11:19	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/03/14 11:19	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.76 mg/L		09/03/14 11:21	WPS	200.7 04KS
Zinc	4.4 mg/L		09/03/14 11:21	WPS	200.7 04KS

Sample No: **4090173-02**
Sample Description: **TK-3**

Collect Date: **09/02/14 07:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.15 mg/L		09/03/14 11:28	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/03/14 11:28	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.70 mg/L		09/03/14 11:30	WPS	200.7 04KS
Zinc	4.5 mg/L		09/03/14 11:30	WPS	200.7 04KS



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Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B414899 - 04 EPA 200.2 R2.8								
Blank (B414899-BLK1)			Prepared & Analyzed: 09/03/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B414899-BS1)			Prepared & Analyzed: 09/03/14					
Arsenic	0.209	mg/L	0.2000		104	85-115		
Zinc	0.228	mg/L	0.2000		114	85-115		
Matrix Spike (B414899-MS1)			Source: 4090173-01		Prepared & Analyzed: 09/03/14			
Arsenic	1.33	mg/L	0.5000	0.761	113	70-130		
Zinc	4.97	mg/L	0.5000	4.41	112	70-130		
Matrix Spike Dup (B414899-MSD1)			Source: 4090173-01		Prepared & Analyzed: 09/03/14			
Arsenic	1.32	mg/L	0.5000	0.761	111	70-130	0.9	20
Zinc	4.99	mg/L	0.5000	4.41	116	70-130	0.4	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B414899 - 04 EPA 200.2 R2.8								
Blank (B414899-BLK1)			Prepared & Analyzed: 09/03/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B414899-BS1)			Prepared & Analyzed: 09/03/14					
Arsenic	0.209	mg/L	0.2000		104	85-115		
Zinc	0.228	mg/L	0.2000		114	85-115		



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Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

UST Certification; Iowa (240)

SPM PDC Laboratories - Springfield, MO

EPA DMR-QA Program

STL PDC Laboratories - St. Louis, MO

TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

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Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Certified by: Roxann Shull, Client Services Supervisor

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Laboratory Results

Sample No: **4090308-01**
Sample Description: **TK-205**

Collect Date: **09/03/14 08:10**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.16 mg/L		09/04/14 09:02	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/04/14 09:02	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.90 mg/L		09/04/14 09:04	WPS	200.7 04KS
Zinc	5.8 mg/L		09/04/14 09:04	WPS	200.7 04KS

Sample No: **4090308-02**
Sample Description: **TK-3**

Collect Date: **09/03/14 07:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.16 mg/L		09/04/14 09:06	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/04/14 09:06	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.70 mg/L		09/04/14 09:08	WPS	200.7 04KS
Zinc	4.5 mg/L		09/04/14 09:08	WPS	200.7 04KS



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Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B414937 - 04 EPA 200.2 R2.8								
Blank (B414937-BLK1)			Prepared: 09/03/14 Analyzed: 09/04/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B414937-BS1)			Prepared: 09/03/14 Analyzed: 09/04/14					
Arsenic	0.202	mg/L	0.2000		101	85-115		
Zinc	0.225	mg/L	0.2000		113	85-115		
Matrix Spike (B414937-MS1)			Source: 4090308-02		Prepared: 09/03/14 Analyzed: 09/04/14			
Arsenic	1.26	mg/L	0.5000	0.697	113	70-130		
Zinc	5.14	mg/L	0.5000	4.49	130	70-130		
Matrix Spike Dup (B414937-MSD1)			Source: 4090308-02		Prepared: 09/03/14 Analyzed: 09/04/14			
Arsenic	1.29	mg/L	0.5000	0.697	119	70-130	2	20
Zinc	5.15	mg/L	0.5000	4.49	132	70-130	0.2	20



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Report Date: 09/08/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4090943-01**
Sample Description: **TK-2**

Collect Date: **09/05/14 07:50**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.051 mg/L		09/08/14 10:53	WPS	200.7 04KS
Zinc	0.062 mg/L		09/08/14 10:53	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.63 mg/L		09/08/14 10:55	WPS	200.7 04KS
Zinc	4.2 mg/L		09/08/14 10:55	WPS	200.7 04KS

Sample No: **4090943-02**
Sample Description: **TK-3**

Collect Date: **09/05/14 07:50**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.18 mg/L		09/08/14 11:02	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/08/14 11:02	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.71 mg/L		09/08/14 11:04	WPS	200.7 04KS
Zinc	4.5 mg/L		09/08/14 11:04	WPS	200.7 04KS

Sample No: **4090943-03**
Sample Description: **TK-4**

Collect Date: **09/05/14 07:55**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.11 mg/L		09/08/14 11:06	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/08/14 11:06	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.70 mg/L		09/08/14 11:14	WPS	200.7 04KS
Zinc	4.5 mg/L		09/08/14 11:14	WPS	200.7 04KS



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Laboratory Results

Sample No: **4090943-04**
Sample Description: **Permeate**

Collect Date: **09/05/14 08:10**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.15 mg/L		09/08/14 11:16	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/08/14 11:16	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.15 mg/L		09/08/14 11:18	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/08/14 11:18	WPS	200.7 04KS



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Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415146 - 04 EPA 200.2 R2.8								
Blank (B415146-BLK1)			Prepared: 09/05/14 Analyzed: 09/08/14					
Arsenic	< 0.005	mg/L						
Zinc	< 0.010	mg/L						
LCS (B415146-BS1)			Prepared: 09/05/14 Analyzed: 09/08/14					
Arsenic	0.103	mg/L	0.1000		103	85-115		
Zinc	0.107	mg/L	0.1000		107	85-115		
Matrix Spike (B415146-MS1)			Source: 4090943-01		Prepared: 09/05/14 Analyzed: 09/08/14			
Arsenic	1.18	mg/L	0.5000	0.629	110	70-130		
Zinc	4.76	mg/L	0.5000	4.18	116	70-130		
Matrix Spike Dup (B415146-MSD1)			Source: 4090943-01		Prepared: 09/05/14 Analyzed: 09/08/14			
Arsenic	1.15	mg/L	0.5000	0.629	105	70-130	2	20
Zinc	4.68	mg/L	0.5000	4.18	101	70-130	2	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415146 - 04 EPA 200.2 R2.8								
Blank (B415146-BLK1)			Prepared: 09/05/14 Analyzed: 09/08/14					
Arsenic	< 0.005	mg/L						
Zinc	< 0.010	mg/L						
LCS (B415146-BS1)			Prepared: 09/05/14 Analyzed: 09/08/14					
Arsenic	0.103	mg/L	0.1000		103	85-115		
Zinc	0.107	mg/L	0.1000		107	85-115		



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Laboratory Results

Sample No: **4091050-01**
Sample Description: **TK-2**

Collect Date: **09/08/14 07:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.061 mg/L		09/09/14 09:03	WPS	200.7 04KS
Zinc	0.069 mg/L		09/09/14 09:03	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.69 mg/L		09/09/14 09:05	WPS	200.7 04KS
Zinc	4.8 mg/L		09/09/14 09:05	WPS	200.7 04KS

Sample No: **4091050-02**
Sample Description: **TK-3**

Collect Date: **09/08/14 07:39**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.15 mg/L		09/09/14 09:07	WPS	200.7 04KS
Zinc	0.061 mg/L		09/09/14 09:07	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.38 mg/L		09/09/14 09:09	WPS	200.7 04KS
Zinc	1.9 mg/L		09/09/14 09:09	WPS	200.7 04KS

Sample No: **4091050-03**
Sample Description: **TK-4**

Collect Date: **09/08/14 07:35**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.083 mg/L		09/09/14 09:18	WPS	200.7 04KS
Zinc	0.055 mg/L		09/09/14 09:18	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.34 mg/L		09/09/14 09:20	WPS	200.7 04KS
Zinc	2.0 mg/L		09/09/14 09:20	WPS	200.7 04KS



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Laboratory Results

Sample No: **4091050-04**
Sample Description: **Permeate**

Collect Date: **09/08/14 07:59**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.15 mg/L		09/09/14 09:22	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/09/14 09:22	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.15 mg/L		09/09/14 09:24	WPS	200.7 04KS
Zinc	0.068 mg/L		09/09/14 09:24	WPS	200.7 04KS



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Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415222 - 04 EPA 200.2 R2.8								
Blank (B415222-BLK1)			Prepared: 09/08/14 Analyzed: 09/09/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B415222-BS1)			Prepared: 09/08/14 Analyzed: 09/09/14					
Arsenic	0.195	mg/L	0.2000		98	85-115		
Zinc	0.206	mg/L	0.2000		103	85-115		
Matrix Spike (B415222-MS1)			Source: 4091050-04		Prepared: 09/08/14 Analyzed: 09/09/14			
Arsenic	0.714	mg/L	0.5000	0.154	112	70-130		
Zinc	0.620	mg/L	0.5000	0.0678	110	70-130		
Matrix Spike Dup (B415222-MSD1)			Source: 4091050-04		Prepared: 09/08/14 Analyzed: 09/09/14			
Arsenic	0.716	mg/L	0.5000	0.154	112	70-130	0.3	20
Zinc	0.605	mg/L	0.5000	0.0678	107	70-130	2	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415222 - 04 EPA 200.2 R2.8								
Blank (B415222-BLK1)			Prepared: 09/08/14 Analyzed: 09/09/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B415222-BS1)			Prepared: 09/08/14 Analyzed: 09/09/14					
Arsenic	0.195	mg/L	0.2000		98	85-115		
Zinc	0.206	mg/L	0.2000		103	85-115		



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CHAIN OF CUSTODY RECORD

Phone (314) 432-0550 or (314) 921-4488

Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Michael Keen

Date Received: 09/10/14 11:29
Report Date: 09/11/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4091447-01**
Sample Description: **TK-2**

Collect Date: **09/10/14 08:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.089 mg/L		09/11/14 08:50	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/11/14 08:50	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.70 mg/L		09/11/14 08:52	WPS	200.7 04KS
Zinc	4.7 mg/L		09/11/14 08:52	WPS	200.7 04KS

Sample No: **4091447-02**
Sample Description: **TK-3**

Collect Date: **09/10/14 08:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.19 mg/L		09/11/14 08:55	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/11/14 08:55	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.71 mg/L		09/11/14 08:57	WPS	200.7 04KS
Zinc	4.7 mg/L		09/11/14 08:57	WPS	200.7 04KS

Sample No: **4091447-03**
Sample Description: **TK-4**

Collect Date: **09/10/14 08:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.16 mg/L		09/11/14 08:59	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/11/14 08:59	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.73 mg/L		09/11/14 09:01	WPS	200.7 04KS
Zinc	4.6 mg/L		09/11/14 09:01	WPS	200.7 04KS



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Attn: Michael Keen

Date Received: 09/10/14 11:29
Report Date: 09/11/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4091447-04**
Sample Description: **Permeate**

Collect Date: **09/10/14 08:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Arsenic	0.18 mg/L		09/11/14 09:13	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/11/14 09:13	WPS	200.7 04KS

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Date Received: 09/10/14 11:29
 Report Date: 09/11/14
 Customer #: 277310
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Laboratory Results**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415379 - 04 EPA 200.2 R2.8								
Blank (B415379-BLK1)			Prepared: 09/10/14 Analyzed: 09/11/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B415379-BS1)			Prepared: 09/10/14 Analyzed: 09/11/14					
Arsenic	0.204	mg/L	0.2000		102	85-115		
Zinc	0.211	mg/L	0.2000		106	85-115		
Matrix Spike (B415379-MS1)			Source: 4091447-03		Prepared: 09/10/14 Analyzed: 09/11/14			
Arsenic	1.26	mg/L	0.5000	0.728	106	70-130		
Zinc	5.24	mg/L	0.5000	4.62	124	70-130		
Matrix Spike Dup (B415379-MSD1)			Source: 4091447-03		Prepared: 09/10/14 Analyzed: 09/11/14			
Arsenic	1.28	mg/L	0.5000	0.728	111	70-130	2	20
Zinc	5.27	mg/L	0.5000	4.62	130	70-130	0.5	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415379 - 04 EPA 200.2 R2.8								
Blank (B415379-BLK1)			Prepared: 09/10/14 Analyzed: 09/11/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B415379-BS1)			Prepared: 09/10/14 Analyzed: 09/11/14					
Arsenic	0.204	mg/L	0.2000		102	85-115		
Zinc	0.211	mg/L	0.2000		106	85-115		



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Laboratory Results

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Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)

Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

UST Certification; Iowa (240)

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EPA DMR-QA Program

STL PDC Laboratories - St. Louis, MO

TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

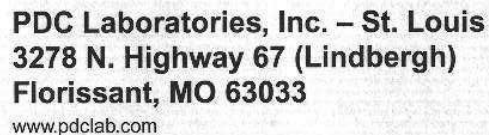
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry

No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



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St. Louis, MO 63044
Attn: Michael Keen

Date Received: 09/15/14 12:39
Report Date: 09/16/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4092155-01**
Sample Description: **TK-2**

Collect Date: **09/15/14 07:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.30 mg/L		09/16/14 10:11	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/16/14 10:11	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.77 mg/L		09/16/14 10:18	WPS	200.7 04KS
Zinc	5.5 mg/L		09/16/14 10:18	WPS	200.7 04KS

Sample No: **4092155-02**
Sample Description: **TK-3**

Collect Date: **09/15/14 07:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.29 mg/L		09/16/14 10:20	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/16/14 10:20	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.80 mg/L		09/16/14 10:22	WPS	200.7 04KS
Zinc	5.4 mg/L		09/16/14 10:22	WPS	200.7 04KS

Sample No: **4092155-03**
Sample Description: **TK-4**

Collect Date: **09/15/14 07:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.26 mg/L		09/16/14 10:24	WPS	200.7 04KS
Zinc	0.078 mg/L		09/16/14 10:24	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.77 mg/L		09/16/14 10:32	WPS	200.7 04KS
Zinc	5.4 mg/L		09/16/14 10:32	WPS	200.7 04KS



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Attn: Michael Keen

Date Received: 09/15/14 12:39
Report Date: 09/16/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4092155-04**
Sample Description: **Permeate**

Collect Date: **09/15/14 07:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Arsenic	0.25 mg/L		09/16/14 10:34	WPS	200.7 04KS
Zinc	0.057 mg/L		09/16/14 10:34	WPS	200.7 04KS



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Attn: Michael Keen

Date Received: 09/15/14 12:39
Report Date: 09/16/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B415668 - 04 EPA 200.2 R2.8

Blank (B415668-BLK1)

Prepared: 09/15/14 Analyzed: 09/16/14

Arsenic	< 0.010	mg/L
Zinc	< 0.020	mg/L

LCS (B415668-BS1)

Prepared: 09/15/14 Analyzed: 09/16/14

Arsenic	0.197	mg/L	0.2000	99	85-115
Zinc	0.218	mg/L	0.2000	109	85-115

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B415668 - 04 EPA 200.2 R2.8

Blank (B415668-BLK1)

Prepared: 09/15/14 Analyzed: 09/16/14

Arsenic	< 0.010	mg/L
Zinc	< 0.020	mg/L

LCS (B415668-BS1)

Prepared: 09/15/14 Analyzed: 09/16/14

Arsenic	0.197	mg/L	0.2000	99	85-115
Zinc	0.218	mg/L	0.2000	109	85-115

Matrix Spike (B415668-MS1)

Source: 4092155-01

Prepared: 09/15/14 Analyzed: 09/16/14

Arsenic	0.864	mg/L	0.5000	0.296	114	70-130
Zinc	0.606	mg/L	0.5000	0.0308	115	70-130

Matrix Spike Dup (B415668-MSD1)

Source: 4092155-01

Prepared: 09/15/14 Analyzed: 09/16/14

Arsenic	0.866	mg/L	0.5000	0.296	114	70-130	0.3	20
Zinc	0.597	mg/L	0.5000	0.0308	113	70-130	1	20



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Laboratory Results

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Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry

No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Certified by: Roxann Shull, Client Services Supervisor

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1 CLIENT BLF PROJECT NUMBER P. O. NUMBER MEANS SHIPPED		3 ANALYSIS REQUESTED PHONE NUMBER FAX NUMBER EMAIL ADDRESS		4 LOGIN # 4092155 LOGGED BY: He LAB PROJ. # TEMPLATE: PROJ. MGR.: REMARKS	
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT CITY STATE ZIP CONTACT PERSON DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count		SAMPLER SAMPLER'S SIGNATURE MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHL-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS			
TK-2 TK-3 TK-4 PERMEATE		9-15-14 7:45AM X X WW 2 9-15-14 7:45AM X X WW 2 9-15-14 7:45AM X X WW 2 9-15-14 7:45AM X X WW 1			
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE		6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.			
7 RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: DATE TIME RECEIVED BY: DATE TIME RECEIVED BY: DATE TIME		8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE 23.2°C YORK YORK YORK YORK			

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St. Louis, MO 63044
Attn: Michael Keen

Date Received: 09/17/14 11:26
Report Date: 09/18/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4092574-01**
Sample Description: **TK-2**

Collect Date: **09/17/14 09:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<u>Soluble Metals - STL</u>						
Arsenic	0.25 mg/L		09/18/14 09:35	WPS	200.7	04KS
Zinc	0.054 mg/L		09/18/14 09:35	WPS	200.7	04KS
<u>Total Metals - STL</u>						
Arsenic	0.91 mg/L		09/18/14 09:37	WPS	200.7	04KS
Zinc	6.6 mg/L	Q4	09/18/14 09:37	WPS	200.7	04KS

Sample No: **4092574-02**
Sample Description: **TK-3**

Collect Date: **09/17/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<u>Soluble Metals - STL</u>						
Arsenic	0.24 mg/L		09/18/14 09:49	WPS	200.7	04KS
Zinc	< 0.050 mg/L		09/18/14 09:49	WPS	200.7	04KS
<u>Total Metals - STL</u>						
Arsenic	0.87 mg/L		09/18/14 09:52	WPS	200.7	04KS
Zinc	6.3 mg/L		09/18/14 09:52	WPS	200.7	04KS

Sample No: **4092574-03**
Sample Description: **TK-4**

Collect Date: **09/17/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<u>Soluble Metals - STL</u>						
Arsenic	0.26 mg/L		09/18/14 09:54	WPS	200.7	04KS
Zinc	< 0.050 mg/L		09/18/14 09:54	WPS	200.7	04KS
<u>Total Metals - STL</u>						
Arsenic	1.0 mg/L		09/18/14 09:56	WPS	200.7	04KS
Zinc	8.0 mg/L		09/18/14 09:56	WPS	200.7	04KS



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Attn: Michael Keen

Date Received: 09/17/14 11:26
Report Date: 09/18/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4092574-04**
Sample Description: **Permeate**

Collect Date: **09/17/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Arsenic	0.28 mg/L		09/18/14 09:58	WPS	200.7 04KS
Zinc	0.080 mg/L		09/18/14 09:58	WPS	200.7 04KS



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Attn: Michael Keen

Date Received: 09/17/14 11:26
Report Date: 09/18/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415826 - 04 EPA 200.2 R2.8								
Blank (B415826-BLK1)			Prepared: 09/17/14 Analyzed: 09/18/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B415826-BS1)			Prepared: 09/17/14 Analyzed: 09/18/14					
Arsenic	0.206	mg/L	0.2000		103	85-115		
Zinc	0.219	mg/L	0.2000		110	85-115		
Matrix Spike (B415826-MS1)			Source: 4092574-01		Prepared: 09/17/14 Analyzed: 09/18/14			
Arsenic	1.49	mg/L	0.5000	0.911	115	70-130		
Zinc	Q4 7.35	mg/L	0.5000	6.64	142	70-130		
Matrix Spike Dup (B415826-MSD1)			Source: 4092574-01		Prepared: 09/17/14 Analyzed: 09/18/14			
Arsenic	1.47	mg/L	0.5000	0.911	111	70-130	1	20
Zinc	Q4 7.18	mg/L	0.5000	6.64	108	70-130	2	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B415826 - 04 EPA 200.2 R2.8								
Blank (B415826-BLK1)			Prepared: 09/17/14 Analyzed: 09/18/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						



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Laboratory Results

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Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Certified by: Roxann Shull, Client Services Supervisor

CHAIN OF CUSTODY RECORD

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State where samples collected _____

(Instructions/Sample Acceptance Policy on Reverse)

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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Michael Keen

Date Received: 09/19/14 15:34
Report Date: 09/22/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4093250-01**
Sample Description: **TK-2**

Collect Date: **09/19/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.27 mg/L		09/22/14 13:30	WPS	200.7 04KS
Zinc	0.064 mg/L		09/22/14 13:30	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.90 mg/L		09/22/14 13:36	WPS	200.7 04KS
Zinc	6.7 mg/L		09/22/14 13:36	WPS	200.7 04KS

Sample No: **4093250-02**
Sample Description: **TK-3**

Collect Date: **09/19/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.23 mg/L		09/22/14 13:38	WPS	200.7 04KS
Zinc	0.062 mg/L		09/22/14 13:38	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.82 mg/L		09/22/14 13:40	WPS	200.7 04KS
Zinc	5.9 mg/L		09/22/14 13:40	WPS	200.7 04KS

Sample No: **4093250-03**
Sample Description: **TK-4**

Collect Date: **09/19/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.26 mg/L		09/22/14 13:42	WPS	200.7 04KS
Zinc	0.059 mg/L		09/22/14 13:42	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.89 mg/L		09/22/14 13:51	WPS	200.7 04KS
Zinc	6.4 mg/L		09/22/14 13:51	WPS	200.7 04KS



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St. Louis, MO 63044
Attn: Michael Keen

Date Received: 09/19/14 15:34
Report Date: 09/22/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4093250-04**
Sample Description: **Permeate**

Collect Date: **09/19/14 07:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Arsenic	0.24 mg/L		09/22/14 13:53	WPS	200.7 04KS
Zinc	0.082 mg/L		09/22/14 13:53	WPS	200.7 04KS

Sample No: **4093250-05**
Sample Description: **TK-200**

Collect Date: **09/19/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.70 mg/L		09/22/14 13:55	WPS	200.7 04KS
Zinc	3.7 mg/L		09/22/14 13:55	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.81 mg/L		09/22/14 13:57	WPS	200.7 04KS
Zinc	5.0 mg/L		09/22/14 13:57	WPS	200.7 04KS

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Laboratory Results**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B416056 - 04 EPA 200.2 R2.8								
Blank (B416056-BLK1)			Prepared & Analyzed: 09/22/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B416056-BS1)			Prepared & Analyzed: 09/22/14					
Arsenic	0.201	mg/L	0.2000		100	85-115		
Zinc	0.209	mg/L	0.2000		104	85-115		

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B416056 - 04 EPA 200.2 R2.8								
Blank (B416056-BLK1)			Prepared & Analyzed: 09/22/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B416056-BS1)			Prepared & Analyzed: 09/22/14					
Arsenic	0.201	mg/L	0.2000		100	85-115		
Zinc	0.209	mg/L	0.2000		104	85-115		
Matrix Spike (B416056-MS1)			Source: 4093250-01		Prepared & Analyzed: 09/22/14			
Arsenic	0.820	mg/L	0.5000	0.266	111	70-130		
Zinc	0.611	mg/L	0.5000	0.0641	109	70-130		
Matrix Spike Dup (B416056-MSD1)			Source: 4093250-01		Prepared & Analyzed: 09/22/14			
Arsenic	0.823	mg/L	0.5000	0.266	111	70-130	0.3	20
Zinc	0.637	mg/L	0.5000	0.0641	115	70-130	4	20



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EPA DMR-QA Program

STL PDC Laboratories - St. Louis, MO

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Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry

No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Certified by: Roxann Shull, Client Services Supervisor

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Date Received: 09/22/14 12:54
Report Date: 09/23/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4093343-01**
Sample Description: **TK-2**

Collect Date: **09/22/14 07:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.25 mg/L		09/23/14 13:24	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/23/14 13:24	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.84 mg/L		09/23/14 13:28	WPS	200.7 04KS
Zinc	6.6 mg/L		09/23/14 13:28	WPS	200.7 04KS

Sample No: **4093343-02**
Sample Description: **TK-3**

Collect Date: **09/22/14 07:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.18 mg/L		09/23/14 13:30	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/23/14 13:30	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.84 mg/L		09/23/14 13:32	WPS	200.7 04KS
Zinc	6.5 mg/L		09/23/14 13:32	WPS	200.7 04KS

Sample No: **4093343-03**
Sample Description: **TK-4**

Collect Date: **09/22/14 07:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.24 mg/L		09/23/14 13:39	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/23/14 13:39	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.83 mg/L		09/23/14 13:41	WPS	200.7 04KS
Zinc	7.0 mg/L		09/23/14 13:41	WPS	200.7 04KS



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Attn: Michael Keen

Date Received: 09/22/14 12:54
Report Date: 09/23/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4093343-04**
Sample Description: **Permeate**

Collect Date: **09/22/14 07:35**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Arsenic	0.27 mg/L		09/23/14 13:49	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/23/14 13:49	WPS	200.7 04KS

Sample No: **4093343-05**
Sample Description: **TK-200**

Collect Date: **09/22/14 07:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.74 mg/L		09/23/14 13:51	WPS	200.7 04KS
Zinc	5.3 mg/L		09/23/14 13:51	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.87 mg/L		09/23/14 13:53	WPS	200.7 04KS
Zinc	6.3 mg/L		09/23/14 13:53	WPS	200.7 04KS



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Attn: Michael Keen

Date Received: 09/22/14 12:54
Report Date: 09/23/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B416120 - 04 EPA 200.2 R2.8								
Blank (B416120-BLK1)			Prepared: 09/22/14 Analyzed: 09/23/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B416120-BS1)			Prepared: 09/22/14 Analyzed: 09/23/14					
Arsenic	0.191	mg/L	0.2000		96	85-115		
Zinc	0.206	mg/L	0.2000		103	85-115		
Matrix Spike (B416120-MS1)			Source: 4093343-02 Prepared: 09/22/14 Analyzed: 09/23/14					
Arsenic	1.37	mg/L	0.5000	0.839	106	70-130		
Zinc	6.90	mg/L	0.5000	6.47	87	70-130		
Matrix Spike Dup (B416120-MSD1)			Source: 4093343-02 Prepared: 09/22/14 Analyzed: 09/23/14					
Arsenic	1.38	mg/L	0.5000	0.839	107	70-130	0.5	20
Zinc	7.02	mg/L	0.5000	6.47	112	70-130	2	20



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Laboratory Results

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SPM PDC Laboratories - Springfield, MO

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STL PDC Laboratories - St. Louis, MO

TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

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1

CLIENT

BLF

ADDRESS

CITY

STATE

ZIP

Bridgeton, MO

CONTACT PERSON

Michael Keen

PROJECT NUMBER

P.O. NUMBER

MEANS SHIPPED

PHONE NUMBER

FAX NUMBER

EMAIL ADDRESS

3

ANALYSIS REQUESTED

4

(FOR LAB USE ONLY)

409334

LOGIN #

LOGGED BY: HK

LAB PROJ. #

TEMPLATE:

PROJ. MGR.:

REMARKS

2

SAMPLE DESCRIPTION

AS YOU WANT ON REPORT

DATE

TIME

SAMPLE TYPE

MATRIX

Bottle

COLLECTED

COLLECTED

GRAB

COMP

TYPE

Count

TK-2

9-22-14

7:20

X

2

TK-3

9-22-14

7:20

X

2

TK-4

9-22-14

7:20

X

2

PERMEATE

9-22-14

7:35

X

1

TK-200

9-22-14

7:15

X

2

5

TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)

NORMAL (8-10 Bus. Days)

RUSH (5 Bus. Days)

Fastrak™ (3 Bus. Days)

1-2 Bus. Days

Same Day

DATE DUE

RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE

6

The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.

7

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY:

DATE

TIME

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY:

DATE

TIME

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY:

DATE

TIME

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY:

DATE

TIME

8

COMMENTS:(FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT

CHILL PROCESS STARTED PRIOR TO RECEIPT

SAMPLE(S) RECEIVED ON ICE

PROPER BOTTLES RECEIVED IN GOOD CONDITION

BOTTLES FILLED WITH ADEQUATE VOLUME

SAMPLES RECEIVED WITHIN HOLD TIME(S)

(EXCLUDES TYPICAL FIELD PARAMETERS)

DATE AND TIME TAKEN FROM SAMPLE BOTTLE

23°C

YORN

YORN

YORN

YORN

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Attn: Michael Keen

Date Received: 09/24/14 10:33
Report Date: 09/25/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4093649-01**
Sample Description: **TK-200**

Collect Date: **09/24/14 07:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.60 mg/L		09/25/14 08:27	WPS	200.7 04KS
Zinc	4.4 mg/L		09/25/14 08:27	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.74 mg/L		09/25/14 08:29	WPS	200.7 04KS
Zinc	5.8 mg/L		09/25/14 08:29	WPS	200.7 04KS

Sample No: **4093649-02**
Sample Description: **TK-2**

Collect Date: **09/24/14 07:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.13 mg/L		09/25/14 08:31	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/25/14 08:31	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.66 mg/L		09/25/14 08:37	WPS	200.7 04KS
Zinc	5.3 mg/L		09/25/14 08:37	WPS	200.7 04KS

Sample No: **4093649-03**
Sample Description: **TK-3**

Collect Date: **09/24/14 07:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.071 mg/L		09/25/14 08:39	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/25/14 08:39	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.69 mg/L		09/25/14 08:41	WPS	200.7 04KS
Zinc	5.3 mg/L		09/25/14 08:41	WPS	200.7 04KS



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Laboratory Results

Sample No: **4093649-04**
Sample Description: **TK-4**

Collect Date: **09/24/14 07:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<u>Soluble Metals - STL</u>						
Arsenic	0.19 mg/L		09/25/14 08:50	WPS	200.7	04KS
Zinc	< 0.050 mg/L		09/25/14 08:50	WPS	200.7	04KS
<u>Total Metals - STL</u>						
Arsenic	0.71 mg/L		09/25/14 08:52	WPS	200.7	04KS
Zinc	5.6 mg/L		09/25/14 08:52	WPS	200.7	04KS

Sample No: **4093649-05**
Sample Description: **Permeate**

Collect Date: **09/24/14 08:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<u>Total Metals - STL</u>						
Arsenic	0.16 mg/L		09/25/14 08:54	WPS	200.7	04KS
Zinc	0.085 mg/L		09/25/14 08:54	WPS	200.7	04KS

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Laboratory Results**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B416256 - 04 EPA 200.2 R2.8**Blank (B416256-BLK1)**

Prepared: 09/24/14 Analyzed: 09/25/14

Arsenic	< 0.005	mg/L
Zinc	< 0.010	mg/L

LCS (B416256-BS1)

Prepared: 09/24/14 Analyzed: 09/25/14

Arsenic	0.100	mg/L	0.1000	100	85-115
Zinc	0.108	mg/L	0.1000	108	85-115

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B416256 - 04 EPA 200.2 R2.8**Blank (B416256-BLK1)**

Prepared: 09/24/14 Analyzed: 09/25/14

Arsenic	< 0.005	mg/L
Zinc	< 0.010	mg/L

LCS (B416256-BS1)

Prepared: 09/24/14 Analyzed: 09/25/14

Arsenic	0.100	mg/L	0.1000	100	85-115
Zinc	0.108	mg/L	0.1000	108	85-115

Matrix Spike (B416256-MS1)**Source: 4093649-02**

Prepared: 09/24/14 Analyzed: 09/25/14

Arsenic	0.673	mg/L	0.5000	0.128	109	70-130
Zinc	0.593	mg/L	0.5000	0.0488	109	70-130

Matrix Spike Dup (B416256-MSD1)**Source: 4093649-02**

Prepared: 09/24/14 Analyzed: 09/25/14

Arsenic	0.695	mg/L	0.5000	0.128	113	70-130	3	20
Zinc	0.603	mg/L	0.5000	0.0488	111	70-130	2	20



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UST Certification; Iowa (240)

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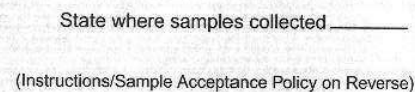
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Missouri Department of Natural Resources

Certified by: Roxann Shull, Client Services Supervisor



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St. Louis, MO 63044
Attn: Michael Keen

Date Received: 09/26/14 16:45
Report Date: 09/29/14
Customer #: 277310
PO#: 4468816

Laboratory Results

Sample No: **4094189-01**
Sample Description: **TK-200**

Collect Date: **09/26/14 07:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.70 mg/L		09/29/14 12:24	WPS	200.7 04KS
Zinc	5.6 mg/L		09/29/14 12:24	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.79 mg/L		09/29/14 12:26	WPS	200.7 04KS
Zinc	7.0 mg/L		09/29/14 12:26	WPS	200.7 04KS

Sample No: **4094189-02**
Sample Description: **TK-2**

Collect Date: **09/26/14 07:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.076 mg/L		09/29/14 12:33	WPS	200.7 04KS
Zinc	0.054 mg/L		09/29/14 12:33	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.97 mg/L		09/29/14 12:35	WPS	200.7 04KS
Zinc	7.2 mg/L		09/29/14 12:35	WPS	200.7 04KS

Sample No: **4094189-03**
Sample Description: **TK-3**

Collect Date: **09/26/14 07:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.082 mg/L		09/29/14 12:37	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/29/14 12:37	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.92 mg/L		09/29/14 12:39	WPS	200.7 04KS
Zinc	6.9 mg/L		09/29/14 12:39	WPS	200.7 04KS



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Laboratory Results

Sample No: **4094189-04**
Sample Description: **TK-4**

Collect Date: **09/26/14 07:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.085 mg/L		09/29/14 12:41	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/29/14 12:41	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.92 mg/L		09/29/14 12:49	WPS	200.7 04KS
Zinc	6.8 mg/L		09/29/14 12:49	WPS	200.7 04KS

Sample No: **4094189-05**
Sample Description: **Permeate**

Collect Date: **09/26/14 07:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Arsenic	0.062 mg/L		09/29/14 12:52	WPS	200.7 04KS
Selenium	< 0.050 mg/L		09/29/14 12:52	WPS	200.7 04KS
Zinc	0.072 mg/L		09/29/14 12:52	WPS	200.7 04KS

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Laboratory Results**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B416478 - 04 EPA 200.2 R2.8								
Blank (B416478-BLK1)			Prepared & Analyzed: 09/29/14					
Arsenic	< 0.010	mg/L						
Selenium	< 0.020	mg/L						
Zinc	< 0.020	mg/L						
LCS (B416478-BS1)			Prepared & Analyzed: 09/29/14					
Arsenic	0.203	mg/L	0.2000		102	85-115		
Selenium	0.209	mg/L	0.2000		104	85-115		
Zinc	0.220	mg/L	0.2000		110	85-115		
Matrix Spike (B416478-MS1)			Source: 4094189-01		Prepared & Analyzed: 09/29/14			
Arsenic	1.40	mg/L	0.5000	0.789	123	70-130		
Selenium	0.645	mg/L	0.5000	0.0507	119	70-130		
Zinc	7.55	mg/L	0.5000	6.98	115	70-130		
Matrix Spike Dup (B416478-MSD1)			Source: 4094189-01		Prepared & Analyzed: 09/29/14			
Arsenic	1.42	mg/L	0.5000	0.789	125	70-130	0.8	20
Selenium	0.651	mg/L	0.5000	0.0507	120	70-130	0.9	20
Zinc	7.55	mg/L	0.5000	6.98	114	70-130	0.05	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B416478 - 04 EPA 200.2 R2.8								
Blank (B416478-BLK1)			Prepared & Analyzed: 09/29/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B416478-BS1)			Prepared & Analyzed: 09/29/14					
Arsenic	0.203	mg/L	0.2000		102	85-115		
Zinc	0.220	mg/L	0.2000		110	85-115		



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Laboratory Results

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Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)

Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

UST Certification; Iowa (240)

SPM PDC Laboratories - Springfield, MO

EPA DMR-QA Program

STL PDC Laboratories - St. Louis, MO

TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry

No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Certified by: Roxann Shull, Client Services Supervisor

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Laboratory Results

Sample No: **4094275-01**
Sample Description: **TK-2**

Collect Date: **09/29/14 07:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.093 mg/L		09/30/14 09:56	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/30/14 09:56	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.97 mg/L		09/30/14 10:04	WPS	200.7 04KS
Zinc	7.1 mg/L		09/30/14 10:04	WPS	200.7 04KS

Sample No: **4094275-02**
Sample Description: **TK-3**

Collect Date: **09/29/14 07:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.062 mg/L		09/30/14 10:06	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/30/14 10:06	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.95 mg/L		09/30/14 10:08	WPS	200.7 04KS
Zinc	7.1 mg/L		09/30/14 10:08	WPS	200.7 04KS

Sample No: **4094275-03**
Sample Description: **TK-4**

Collect Date: **09/29/14 07:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Soluble Metals - STL</u>					
Arsenic	0.065 mg/L		09/30/14 10:14	WPS	200.7 04KS
Zinc	< 0.050 mg/L		09/30/14 10:14	WPS	200.7 04KS
<u>Total Metals - STL</u>					
Arsenic	0.97 mg/L		09/30/14 10:16	WPS	200.7 04KS
Zinc	7.2 mg/L		09/30/14 10:16	WPS	200.7 04KS



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Laboratory Results

Sample No: **4094275-04**
Sample Description: **Permeate**

Collect Date: **09/29/14 07:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Arsenic	0.079 mg/L		09/30/14 10:19	WPS	200.7 04KS
Zinc	0.072 mg/L		09/30/14 10:19	WPS	200.7 04KS



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Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B416546 - 04 EPA 200.2 R2.8								
Blank (B416546-BLK1)			Prepared: 09/29/14 Analyzed: 09/30/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B416546-BS1)			Prepared: 09/29/14 Analyzed: 09/30/14					
Arsenic	0.197	mg/L	0.2000		99	85-115		
Zinc	0.210	mg/L	0.2000		105	85-115		
Matrix Spike (B416546-MS1)			Source: 4094275-02		Prepared: 09/29/14 Analyzed: 09/30/14			
Arsenic	1.49	mg/L	0.5000	0.951	107	70-130		
Zinc	7.63	mg/L	0.5000	7.10	106	70-130		
Matrix Spike Dup (B416546-MSD1)			Source: 4094275-02		Prepared: 09/29/14 Analyzed: 09/30/14			
Arsenic	1.51	mg/L	0.5000	0.951	111	70-130	1	20
Zinc	7.52	mg/L	0.5000	7.10	85	70-130	1	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B416546 - 04 EPA 200.2 R2.8								
Blank (B416546-BLK1)			Prepared: 09/29/14 Analyzed: 09/30/14					
Arsenic	< 0.010	mg/L						
Zinc	< 0.020	mg/L						
LCS (B416546-BS1)			Prepared: 09/29/14 Analyzed: 09/30/14					
Arsenic	0.197	mg/L	0.2000		99	85-115		
Zinc	0.210	mg/L	0.2000		105	85-115		



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SPM PDC Laboratories - Springfield, MO

EPA DMR-QA Program

STL PDC Laboratories - St. Louis, MO

TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

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Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Certified by: Roxann Shull, Client Services Supervisor

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