

Monitoring Report Submittal Form

Attn:

Ron Falkowski
Region 5 Redding Office

Discharger: McCloud Community Services District
Name of Facility: McCloud WWTF
Order Number: R5-2017-0078
WDID: 5A470102002
County: Siskiyou

I am hereby submitting to the Central Valley Regional Water Quality Control Board the following information:

Check all that apply:

Monthly Monitoring Report for the month of _____
1st / 2nd / 3rd / 4th (circle one) Quarterly Monitoring Report for the year of 2019

1st / 2nd (circle one) Semi-annual Monitoring Report for the year of _____

Annual Monitoring Report for the year _____

Violation Notification

During the monitoring period there were / were not (circle one) any violations of the WDRs.

- The violations were:

- Have the violations been corrected? Yes / No (circle one). If no, what will be done to correct the violations?

Certification Statement

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signature:  Date: 7-8-19

Print Name: Amos McAbier Position: General Manager

Contact Phone #: 530-964-2017

McCloud CSD

WDID # 5A470102002

Monitoring and Reporting Program No. R5-2017-0078

INFLUENT MONITORING

Influent flow:

Amount	Month 1	Month 2	Month 3
Total Gallons	5,257,000	5,077,000	5,370,000
Average GPD	175,000	164,000	179,000

GPD denotes, Gallons Per Day

EFFLUENT MONITORING (May 14, 2019)

Quarterly Sampling point EFF-1:

Constituent	Units	Results
RP elevation, approx. MSL	0.01 Feet	3,192.37
Groundwater Elevation	0.01 Feet	>3,178.37
Depth to Groundwater	0.01 Feet	<14.00 (dry)
Dissolved Oxygen	mg/L	-
pH	Standard	-
EC	umhos/cm	-
BOD	mg/L	-
TDS	mg/L	-
FDS	mg/L	-
Total Kjeldahl Nitrogen	mg/L	-
Ammonia as N	mg/L	-
Nitrate as N	mg/L	-
Nitrite as N	mg/L	-
Total Nitrogen	mg/L	-

POND MONITORING (May 14, 2019)

Pond 1- Quarterly Laboratory monitoring:

Constituent	Units	Results
Dissolved Oxygen*	mg/L	3.5
pH	Standard	7.55
EC	umhos/cm	158
BOD	mg/L	30
TDS	mg/L	178
FDS	mg/L	95
Total Kjeldahl Nitrogen	mg/L	9.46
Ammonia as N	mg/L	2.25
Nitrate as N	mg/L	<0.02
Nitrite as N	mg/L	0.007J
Total Nitrogen	mg/L	9.46
Freeboard	0.1 feet	3.1
Berm Condition	observations	Good

*Dissolved Oxygen monitoring applies to any pond containing more than two feet of standing wastewater.

J indicates detected, but below the reporting limit; therefore, result is an estimated concentration.

McCloud CSD
WDID # 5A470102002
Monitoring and Reporting Program No. R5-2017-0078

Pond 1- Monthly Observations

Pond conditions Pond 1			
Condition	Month 1	Month 2	Month 3
Weeds in water or along berm	None	None	None
Algae, vegetation, scum, or debris on pond surface	None	None	None
Animal burrows in berms	None	None	None
Seepage from berms or downslope of ponds	None	None	None
Tears, abrasions, cracks, and holes in liners	None	None	None

QUARTERLY GROUNDWATER MONITORING (May 14, 2019)

Constituent	Units	MW-1	MW-2	MW-3
RP elevation, approx. MSL	0.01 Feet	3,190.50	3,186.33	3,160.33
Groundwater Elevation	0.01 Feet	3,185.10	<3,171.65	3,153.08
Depth to Groundwater	0.01 Feet	5.40	Dry (>14.68)	7.25
Gradient	Feet/Feet	0.022	-	0.022
Gradient Direction	Degrees	188°27'31"	-	188°27'31"
pH	Standard	6.96	-	6.28
Total Dissolved Solids	mg/L	72	-	57
Nitrate as N	mg/L	0.28	-	<0.02
Nitrite as N	mg/L	<0.003	-	<0.003
Ammonia as N	mg/L	<0.020	-	<0.020
Total Kjeldahl Nitrogen	mg/L	0.19J	-	<0.09
Total Nitrogen	mg/L	0.469	-	<0.09
Sodium	mg/L	7.6	-	3.2
Chloride	mg/L	0.39J	-	0.60
Total Coliform Organisms	MPN/100 mL	<2	-	<2

J indicates detected, but below the reporting limit; therefore, result is an estimated concentration.

McCloud CSD
WDID # 5A470102002
Monitoring and Reporting Program No. R5-2017-0078

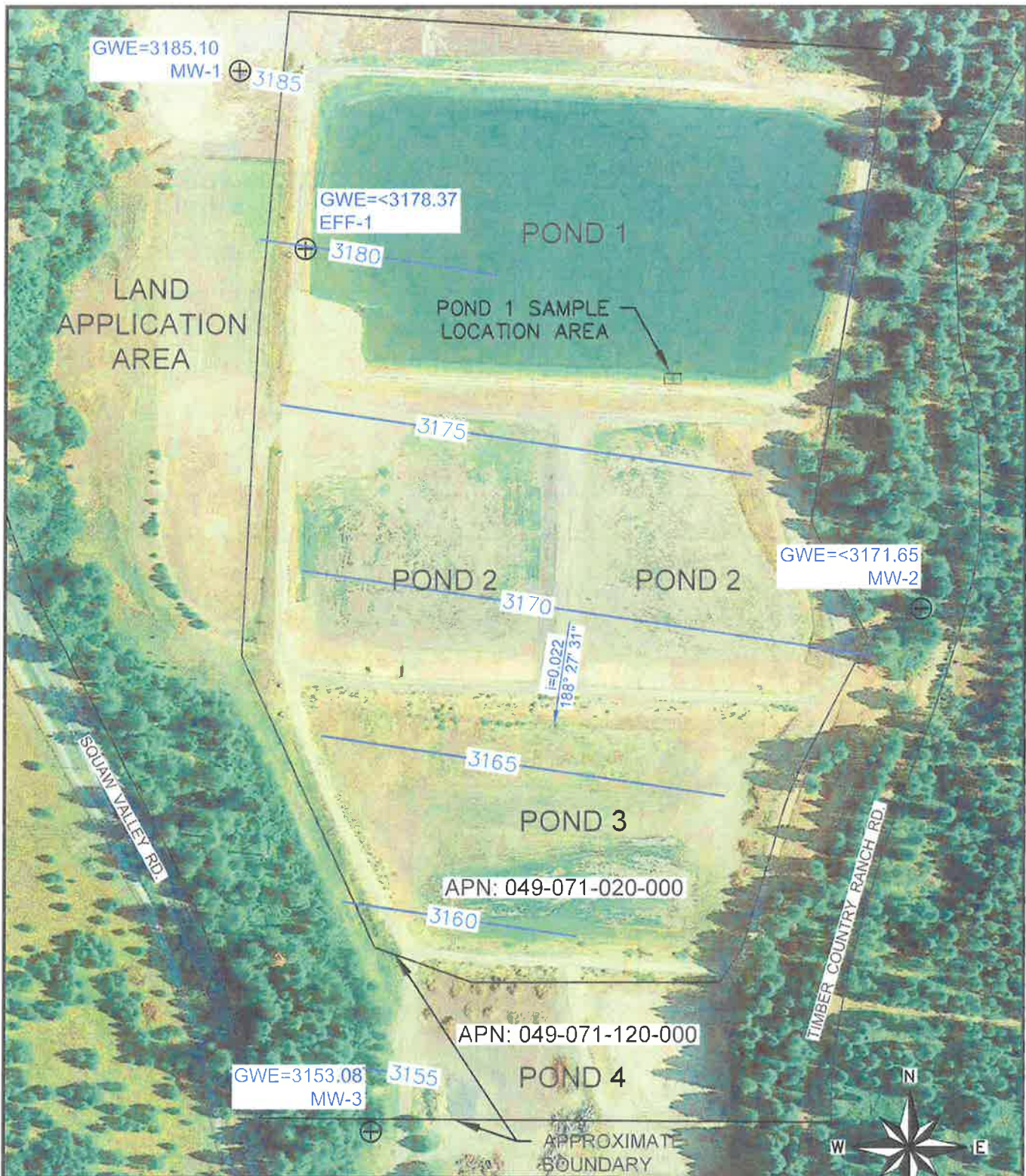
SOLIDS/BIOSOLIDS DISPOSAL MONITORING

Annual Volume Generated (dry metric tons per year): 0

Annual Monitoring*: Comprehensive test results of older stockpile previously submitted 1/9/19

Parameter	Units	Results
Arsenic	mg/Kg	
Lead	mg/Kg	
Nickel	mg/Kg	
Cadmium	mg/Kg	
Mercury	mg/Kg	
Selenium	mg/Kg	
Copper	mg/Kg	
Molybdenum	mg/Kg	
Zinc	mg/Kg	
Total Nitrogen	mg/Kg	
Total Solids	mg/Kg	

*If annual volume generated exceeds 290 dry metric tons per year, see Monitoring and Reporting Program R5-2017-0078 for schedule of monitoring frequency based on volume generated.



LEGEND		
MW-1 ⊕ GWE=3185.10	WELL LOCATION GROUNDWATER ELEV., FT.	— 3160 — ESTIMATED GROUNDWATER CONTOUR ELEVATION, FT.
		$i=0.022$ $188^\circ 27' 31''$ ESTIMATED DIRECTION AND MAGNITUDE OF GROUNDWATER GRADIENT, FT/FT



WELL LOCATION MAP (MAY 14, 2019)

PROJECT NAME: MONITORING	PROJECT NO.: 015100.01	DATE: 6/26/2019
CLIENT: MCCLLOUD CSD	DRAWN BY: J. BEERS	FIGURE 1
SCALE: 1" = 200'	CHECKED BY: B. GARTNER	

Groundwater Monitoring Field-Data Sheet
McCloud CSD Wastewater Ponds

Date: 5-14-2019

Sampled By: Dan Jensen

POINT	DTW	pH	EC	Temp.	Turbidity	DO		Time
	feet	pH	µmhos/c	deg. C	NTU	mg/L		
MW-1	5.40'							0845
		7.26	65	9.4°C	68.3			0850
		7.12	60	9.1°C	21.3			0855
		7.05	59	8.8°C	35.7			0900
		6.96	60	8.9°C	28.0			0905
		6.96	59	9.0°C	27.01			0910
MW-2	Dry	>14.68						1105
MW-3	7.25'							1110
		7.12	56	9.6°C		6.90		1115
		6.90	56	9.4°C		4.24		1120
		6.51	55	10.7°C		4.05		1125
		6.30	55	10.7°C		5.18		1130
		6.28	56	10.7°C		4.39		1135
EFF-1								
	Dry	>14.00						0935
Pond 1	Run Cond. Good	7.55	158	20.0°C	18.2 ^{NTU}	3.5 ^{mg/L}	2.11"	1040
							3.1"	

* Replaced D.O. meter Probe



www.basiclab.com

2218 Railroad Avenue
Redding, California 96001

voice 530.243.7234
fax 530.243.7494

3860 Morrow Lane, Suite F
Chico, California 95928

voice 530.894.8966
fax 530.894.5143

AMENDED

JUN 21 2019

SIG. 

June 21, 2019

Lab ID: 19E0846

BRYAN GARTNER
LAWRENCE & ASSOCIATES
3590 IRON COURT
SHASTA LAKE, CA 96019

RE: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00


Dear BRYAN GARTNER,

Enclosed are the analysis results for Work Order number 19E0846. All analyses were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,


For



Ricky D. Jensen
Laboratory Director

California ELAP Certification Number 1677



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Chico, California 95928 fax 530.894.5143

Report To: LAWRENCE & ASSOCIATES
3590 IRON COURT
SHASTA LAKE, CA 96019

Attention: BRYAN GARTNER

Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

Lab No: 19E0846
Reported: 06/21/19
Phone: (530) 275-4800
P.O. #

General Chemistry

Analyte	Units	Results	Qualifier	Analyst	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (19E0846-01) Sampled:05/14/19 09:10 Received:05/14/19 14:50 Temp (C): 15.9										
Chloride	mg/l	0.39	J	AMV	0.16	0.50	EPA 300.0	05/20/19	05/20/19	B9E1311
Nitrate as N	"	0.28		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
Nitrite as N	"	ND		RRG	0.003	0.010	"	"	"	"
Total Dissolved Solids	"	72		JC	3	6	SM 2540C	05/16/19	05/16/19	B9E1251
Nitrogen, Total	"	0.469		JC	0.0900	0.200	(CALC)	05/22/19	05/21/19	[CALC]
Total Kjeldahl Nitrogen	"	0.19	J	JC	0.09	0.20	EPA 351.2	"	"	B9E1334
Ammonia as N	"	ND		JC	0.020	0.050	EPA 350.1	05/20/19	05/20/19	B9E1305
Nitrate+Nitrite as N	"	0.28		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
MW-3 Water (19E0846-02) Sampled:05/14/19 11:35 Received:05/14/19 14:50 Temp (C): 13.2										
Chloride	mg/l	0.60		AMV	0.16	0.50	EPA 300.0	05/20/19	05/20/19	B9E1311
Nitrate as N	"	ND		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
Nitrite as N	"	ND		RRG	0.003	0.010	"	"	"	"
Total Dissolved Solids	"	57		JC	3	6	SM 2540C	05/16/19	05/16/19	B9E1251
Nitrogen, Total	"	ND		JC	0.0900	0.200	(CALC)	05/22/19	05/21/19	[CALC]
Total Kjeldahl Nitrogen	"	ND		JC	0.09	0.20	EPA 351.2	"	"	B9E1334
Ammonia as N	"	ND		JC	0.020	0.050	EPA 350.1	05/20/19	05/20/19	B9E1305
Nitrate+Nitrite as N	"	ND		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
POND-1 Water (19E0846-03) Sampled:05/14/19 10:40 Received:05/14/19 14:50 Temp (C): 15.7										
Nitrate as N	mg/l	ND		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
Nitrite as N	"	0.007	J	RRG	0.003	0.010	"	"	"	"
Total Dissolved Solids	"	178		JC	3	6	SM 2540C	05/16/19	05/16/19	B9E1252
BOD - 5 Day	"	30		JC	3	3	SM 5210B	05/20/19	05/15/19	B9E1198
Fixed Dissolved Solids	"	95	I-04	JC	3	6	SM 2540E	05/30/19	05/30/19	B9E1253
Nitrogen, Total	"	9.46		JC	0.900	2.00	(CALC)	05/22/19	05/21/19	[CALC]
Total Kjeldahl Nitrogen	"	9.46		JC	0.90	2.00	EPA 351.2	"	"	B9E1334
Ammonia as N	"	2.25		JC	0.100	0.250	EPA 350.1	05/20/19	05/20/19	B9E1305
Nitrate+Nitrite as N	"	ND		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194

Approved By

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Chico, California 95928

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Report To: LAWRENCE & ASSOCIATES
3590 IRON COURT
SHASTA LAKE, CA 96019
Attention: BRYAN GARTNER
Project: MCCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

Lab No: 19E0846
Reported: 06/21/19
Phone: (530) 275-4800
P.O. #

Microbiology

Analyte	Units	Results	Qualifier	Analyst	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (19E0846-01)		Sampled:05/14/19 09:10		Received:05/14/19 14:50			Temp (C): 15.9			
Total Coliforms	MPN/100 ml	<2		TMN		2	SM 9221B	05/16/19	05/14/19	B9E1255
MW-3 Water (19E0846-02)		Sampled:05/14/19 11:35		Received:05/14/19 14:50			Temp (C): 13.2			
Total Coliforms	MPN/100 ml	<2		TMN		2	SM 9221B	05/16/19	05/14/19	B9E1255


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Chico, California 95928 fax 530.894.5143

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Attention: BRYAN GARTNER
Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

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Metals - Total

Analyte	Units	Results	Qualifier	Analyst	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (19E0846-01)		Sampled:05/14/19 09:10		Received:05/14/19 14:50	Temp (C): 15.9					
Sodium	mg/l	7.6	R-08	CH	1.0	5.0	EPA 200.7	05/22/19	05/16/19	B9E1213
MW-3 Water (19E0846-02)		Sampled:05/14/19 11:35		Received:05/14/19 14:50	Temp (C): 13.2					
Sodium	mg/l	3.2		CH	0.2	1.0	EPA 200.7	05/22/19	05/16/19	B9E1213

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Quality Control Data

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
General Chemistry										
Batch B9E1194 - General Prep - GC										
Blank										
Nitrate as N	ND	0.05	mg/l							
Nitrite as N	ND	0.010	mg/l							
Nitrate+Nitrite as N	ND	0.05	mg/l							
LCS										
Nitrate as N	1.48	0.05	mg/l	1.50		98.9	90-110			
Nitrite as N	0.525	0.010	mg/l	0.500		105	90-110			
Nitrate+Nitrite as N	2.01	0.05	mg/l	2.00		100	90-110			
Duplicate Source: 19E0846-01										
Nitrate as N	0.28	0.05	mg/l		0.28			0.831	20	
Nitrite as N	ND	0.010	mg/l		ND				20	
Nitrate+Nitrite as N	0.28	0.05	mg/l		0.28			0.831	20	
Matrix Spike Source: 19E0846-01										
Nitrate as N	1.84	0.05	mg/l	1.50	0.28	104	90-110			
Nitrite as N	0.534	0.010	mg/l	0.500	ND	107	90-110			
Nitrate+Nitrite as N	2.38	0.05	mg/l	2.00	0.28	105	90-110			
Batch B9E1198 - General Prep - GC										
Blank										
BOD - 5 Day	ND	3	mg/l							
LCS										
BOD - 5 Day	205	3	mg/l	198		104	84.8-115.2			
Batch B9E1251 - General Prep - GC										
Blank										
Total Dissolved Solids	ND	6	mg/l							
LCS										
Total Dissolved Solids	201	6	mg/l	200		100	80-120			
Duplicate Source: 19E0924-02										
Total Dissolved Solids	4060	6	mg/l		4080			0.491	5	
Batch B9E1252 - General Prep - GC										
Blank										
Total Dissolved Solids	ND	6	mg/l							
LCS										
Total Dissolved Solids	202	6	mg/l	200		101	80-120			
Duplicate Source: 19E0846-03										
Total Dissolved Solids	173	6	mg/l		178			2.85	5	
Batch B9E1253 - General Prep - GC										
Blank										
Fixed Dissolved Solids	ND	6	mg/l							

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Report To: LAWRENCE & ASSOCIATES
3590 IRON COURT
SHASTA LAKE, CA 96019


Attention: BRYAN GARTNER

Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

Lab No: 19E0846
Reported: 06/21/19
Phone: (530) 275-4800
P.O. #

Quality Control Data

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
General Chemistry										
Batch B9E1253 - General Prep - GC										
LCS										
Fixed Dissolved Solids	181	6	mg/l	200		90.5	80-120			
Duplicate	Source: 19E0846-03									
Fixed Dissolved Solids	95	6	mg/l		95			0.00	5	
Batch B9E1305 - General Prep - GC										
Blank										
Ammonia as N	ND	0.050	mg/l							
LCS										
Ammonia as N	0.494	0.050	mg/l	0.500		98.8	90-110			
Duplicate	Source: 19E0846-01									
Ammonia as N	ND	0.050	mg/l		ND				20	
Duplicate	Source: 19E0959-03									
Ammonia as N	ND	0.050	mg/l		ND				20	
Matrix Spike	Source: 19E0846-01									
Ammonia as N	0.487	0.050	mg/l	0.500	ND	97.4	90-110			
Matrix Spike	Source: 19E0959-03									
Ammonia as N	0.490	0.050	mg/l	0.500	ND	98.1	90-110			
Batch B9E1311 - General Prep - GC										
Blank										
Chloride	ND	0.50	mg/l							
LCS										
Chloride	4.98	0.50	mg/l	5.00		99.6	90-110			
Duplicate	Source: 19E0548-02									
Chloride	13.6	0.50	mg/l		13.5			0.160	20	
Duplicate	Source: 19E0653-04									
Chloride	34.2	0.50	mg/l		34.2			0.0316	20	
Matrix Spike	Source: 19E0548-02									
Chloride	18.6	0.50	mg/l	5.00	13.5	101	80-120			
Matrix Spike	Source: 19E0653-04									
Chloride	39.1	0.50	mg/l	5.00	34.2	97.7	80-120			
Batch B9E1334 - General Prep - GC										
Blank										
Total Kjeldahl Nitrogen	ND	0.20	mg/l							
LCS										
Total Kjeldahl Nitrogen	1.01	0.20	mg/l	1.00		101	90-110			
Duplicate	Source: 19E0846-01									
Total Kjeldahl Nitrogen	0.18	0.20	mg/l		0.19			4.00	20	J

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SHASTA LAKE, CA 96019
Attention: BRYAN GARTNER
Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

Lab No: 19E0846
Reported: 06/21/19
Phone: (530) 275-4800
P.O. #

Quality Control Data

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
General Chemistry										
Batch B9E1334 - General Prep - GC										
Duplicate	Source: 19E1009-01									
Total Kjeldahl Nitrogen	ND	0.20	mg/l		ND				20	
Matrix Spike	Source: 19E0846-01									
Total Kjeldahl Nitrogen	1.25	0.20	mg/l	1.00	0.19	106	75-125			
Matrix Spike	Source: 19E1009-01									
Total Kjeldahl Nitrogen	0.98	0.20	mg/l	1.00	ND	98.4	75-125			
Metals - Total										
Batch B9E1213 - EPA 200 Series										
Blank										
Sodium	ND	1.0	mg/l							
LCS										
Sodium	50.8	1.0	mg/l	50.0		102	85-115			
Duplicate	Source: 19E0800-01									
Sodium	2.3	1.0	mg/l		2.3			1.30	20	
Matrix Spike	Source: 19E0800-01									
Sodium	53.3	1.0	mg/l	50.0	2.3	102	75-125			

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Notes and Definitions

- R-08 The sample was diluted due to sample matrix resulting in elevated reporting limits.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.
- I-04 Sample was re-analyzed past the EPA recommended hold time.
- A-01 <2
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- < Less than reporting limit
- ≤ Less than or equal to reporting limit
- > Greater than reporting limit
- ≥ Greater than or equal to reporting limit
- MDL Method Detection Limit
- RL/ML Minimum Level of Quantitation
- MCL/AL Maximum Contaminant Level/Action Level
- mg/kg Results reported as wet weight
- TTLC Total Threshold Limit Concentration
- STLC Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leachate Procedure
- Note 1 Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.
- Note 2 According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Approved By _____

Basic Laboratory Inc
California ELAP Cert #1677 and #2718

