

QUANTUM Engineering

and Geologic Consulting

March 28, 2018

Ted Uecker
Washington Department of Ecology
4601 Monroe, Suite 202
Spokane, WA 99205-1295

Re: Dusty Four Star Supply-Semi Annual Monitoring Report
Correspondence #117.42

Dear Mr. Uecker:

Semi annual monitoring was performed at Four Star Supply, (formerly Dusty Farm Coop) on March 14, 2018. This report provides data regarding samples collected at that time. All wells were sampled with the exception of GW5, GW7, GW9 and the onsite water supply wellhead. The four afore-mentioned well locations have revealed numerous consecutive, samples below the minimum detection limits of the laboratory for NWTPH-Gx and BTEX. Sampling of these wells is not considered critical for operation of the groundwater treatment system but will be included in the future sampling plan when the site nears closure. MW1 was damaged by a snow plow in 2009 and was abandoned. Replacement of MW1 is not considered necessary for operation and monitoring of the on-site treatment system.

Wells MW2 through MW5, GW1 and GW3 were opened and allowed to equilibrate to atmospheric pressure prior to collection of static water levels. All wells were sampled using low-flow sampling techniques and samples were collected in laboratory certified containers, placed on ice and transported to the laboratory for analyses. Samples were analyzed using Method 8260C for benzene, toluene, ethylbenzene and total xylene (BTEX). Gasoline analyses were performed using method NWTPH-Gx.

Recent samples were below the Model Toxic Control Act (MTCA) Method A standard for groundwater with the exception of MW3. MW3 revealed benzene at 7.0 $\mu\text{g/L}$ compared to the MTCA Method A Standard of 5.0 $\mu\text{g/L}$.

Methyl tert-butyl ether (MTBE) was revealed at low levels in all of the wells sampled. All wells were below the current MTCA Method A standard for groundwater of 20.0 $\mu\text{g/L}$. Since site remedial action was initiated in 2001 under the 1993 MTCA, MTBE is not actually a chemical of concern for this site. MTBE is being reported as part of the analytical procedure by the laboratory and is provided here as supplemental information.

Operation of the collection and treatment system remains suspended due to an inability of the recharge basin pump to deliver adequate flow to the recharge trench. This situation triggers a high alarm condition in the recharge basin when it is out-paced by discharge from the collection trench pump and the air stripper.

Liquid and solids accumulated in the recharge basin were removed by the local septic hauling service for disposal after characterization of the basin contents. Following cleaning, the recharge basin pump was serviced earlier this month and found to be in satisfactory condition. However, insufficient flow to the recharge trench still appears to be a problem. It is possible that clogging of the pressure lines or perforated discharge lines in the recharge trench may be the problem. Diagnostic testing of the pump performance was not possible during the recent sampling event due to high ambient water levels in the recharge trench area. Further diagnostics will be performed upon return to normal ambient water levels in the recharge trench area. Corrective measures will be developed at that time.

A data summary table and supporting laboratory data are attached for your review. If you have any questions or need any additional information, please feel free to call.

Sincerely,



James S. De Smet, PE, PG

Cc: Don Boyd, CDA Service
Dave Appel, Four Star Supply
Terry Miller, Four Star Supply

**Groundwater Data Summary
Dusty Four Star Supply**

Well ID	Date	TPH-G	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	Heavy Oil	SWL	
MW1	8/10/2001*			ND						9.20	
	3/25/02	129000.00	13700.00	30600.00	2410.00	14200.00				3.11	
	6/27/02	120000.00	19700.00	38500.00	2310.00	15000.00				6.11	
	12/3/02*										
	1/24/2003**									4.73	
	4/3/03	108000.00	13100.00	21000.00	1870.00	11500.00				4.18	
	7/30/03	98200.00	4670.00	11100.00	1250.00	7550.00	ND	6900.00	633.00	7.13	
	12/10/03*									8.30	
	4/9/2004**									5.10	
	9/7/2004**									8.30	
	2/17/2005**									5.77	
	5/12/2005**									5.40	
	10/25/2005**									8.00	
	3/15/2006**									3.60	
	7/26/2006**									7.13	
	11/21/2006**									8.10	
	3/13/2007**									5.00	
	6/28/2007**									6.69	
	9/26/2007*									9.30	
	12/21/2007*									7.20	
	3/25/2008*									4.06	
	6/30/2008*									6.02	
	9/23/2008*									7.98	
	12/4/2008*									7.28	
	3/19/2009*	Well Abandone									
	6/25/09	Well Abandone									
	12/3/09	Well Abandone									
	4/25/11	Well Abandone									
	5/8/12	Well Abandone									
	11/16/12	Well Abandone									
	5/2/13	Well Abandone									
	10/1/13	Well Abandone									
3/11/15	Well Abandone										
9/10/15	Well Abandone										
5/21/16	Well Abandone										
4/19/17	Well Abandone										
9/16/17	Well Abandone										
3/14/18	Well Abandone										
MW2	8/10/01	32000.00	838.00	ND	389.00	4410.00				7.45	
	3/25/02	12700.00	19900.00	29800.00	1850.00	12200.00				3.33	
	6/27/02	72300.00	13300.00	21500.00	1130.00	8230.00				5.95	
	12/03/02*										
	1/24/2003**									4.95	
	4/3/03	218000.00	24900.00	53100.00	3330.00	18100.00				4.22	
	7/30/03*									7.50	
	12/10/2003*									7.85	
	4/9/04	1420.00	192.00	280.00	32.60	208.00				4.75	
	9/7/2004**									8.02	
	2/17/2005**									5.67	
	5/12/2005**									5.53	
	10/25/2005**									7.77	
	3/15/2006**										
	7/26/2006**									7.15	
	11/21/2006**									8.20	
	3/13/07									4.20	
	6/28/07									6.80	
	9/26/07									9.33	
	12/21/07									7.10	
	3/25/08									4.35	
	6/30/08									6.20	
	9/23/08									8.25	
	12/4/08									7.32	
	3/19/09									3.19	
	6/25/09									6.20	
	12/3/09									6.76	
	3/31/10	29600.00	2730.00	ND	1480.00	3190.00				4.95	
	6/24/10	23500.00	3020.00	ND	69.40	3080.00				5.35	
	11/12/10	Not Sampled									
	4/25/11	Not Sampled									
	11/21/11	Not Sampled									
5/8/12	Not Sampled										
11/16/12	6750.00	591.00	10.00	6.80	274.30						
5/2/13	6360.00	614.00	10.30	ND	ND						
10/1/13	3710.00	527.00	4.27	ND	34.20						
4/23/14	2860.00	65.20	ND	1.05	9.38					5.15	
10/7/14	2100.00	201.00	2.28	20.50	39.82					9.23	
3/11/15	2000.00	98.00	ND	6.80	11.00	ND				5.32	
9/10/15	1600.00	110.00	4.70	98.00	23.10					8.67	
5/21/16	1600.00	46.00	1.80	5.40	11.00	2.70				4.70	
9/20/16	1500.00	50.00	5.70	84.00	43.00					8.27	
4/19/17	560.00	16.00	ND	ND	ND	3.90					
9/16/17	610.00	20.00	ND	9.00	10.00	3.00				7.20	
3/14/18	220.00	4.40	ND	ND	ND	4.30				2.20	
MW3	8/10/01	25900.00	2380.00	ND	515.00	3180.00				9.20	
	3/25/02	42500.00	4540.00	8900.00	758.00	4380.00				4.97	
	6/27/02	3760.00	1320.00	474.00	25.90	168.00				7.68	
	12/3/02	10500.00	6750.00	91.00	5.47	43.10					
	1/24/2003**									6.55	
	4/3/03	3550.00	1760.00	56.70	2.93	47.70				5.94	
	7/30/03	24400.00	4820.00	431.00	ND	358.00	462.00	3470.00	1290.00	8.95	
	12/10/03	13100.00	9140.00	12.90	ND	1.82				9.20	
4/9/04	3540.00	1590.00	68.60	5.04	91.20				6.55		

Well ID	Date	TPH-G	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	Heavy Oil	SWL
	3/13/07	431.00	5.00	ND	ND	ND				4.39
	6/28/07	428.00	1.25	ND	ND	ND				6.73
	9/26/07	105.00	ND	ND	ND	ND				9.28
	12/21/07	ND	0.93	ND	ND	ND				6.92
	3/25/08	485.00	1.05	ND	ND	ND				3.65
	6/30/08	182.00	ND	ND	ND	ND				5.97
	9/23/08	ND	0.94	ND	ND	ND		282.00	ND	8.19
	12/4/08	119.00	ND	ND	ND	ND				7.41
	3/19/09	ND	ND	ND	ND	ND				2.81
	6/25/09	101.00	ND	ND	ND	ND				5.04
	12/3/09	142.00	ND	ND	ND	ND				6.79
	3/31/10	ND	ND	ND	ND	ND				4.25
	6/24/10	ND	ND	ND	ND	ND				4.69
	11/12/10	ND	ND	ND	ND	ND				Bad Probe
	4/25/11	ND	ND	ND	ND	ND				2.62
	11/21/11	ND	ND	ND	ND	ND				7.80
	5/8/12	ND	ND	ND	ND	ND				2.99
	11/16/12	ND	ND	ND	ND	ND				7.06
	5/2/13	ND	ND	ND	ND	ND				***
	10/1/13	ND	ND	ND	ND	ND				
	4/23/14	ND	ND	ND	ND	ND				5.10
	10/7/14	ND	ND	ND	ND	ND				9.29
	3/11/15	ND	ND	ND	ND	ND	11.00			4.73
	9/10/15	ND	ND	ND	ND	ND				7.65
	5/21/16	ND	ND	ND	ND	ND	12.00			4.24
	9/20/16	ND	ND	ND	ND	ND				8.21
	4/19/17	ND	ND	ND	ND	ND	6.40			1.97
	9/16/17	ND	ND	ND	ND	ND	7.20			7.22
	3/14/18	ND	ND	ND	ND	ND	4.10			2.25
<hr/>										
Well Head	5/11/01	85.50	ND	ND	ND	1.52				
	3/25/02	ND	ND	ND	ND	ND				
	6/27/02	ND	ND	ND	ND	ND				
	12/3/02	ND	0.51	ND	ND	ND				
	4/3/03	ND	ND	ND	ND	ND				
	8/13/03	100.00	ND	ND	ND	ND	ND	ND	ND	
	12/10/03	ND	ND	ND	ND	ND				
	4/9/04	ND	ND	ND	ND	ND				
	9/7/04	ND	ND	ND	ND	ND				
	2/17/05	ND	ND	ND	ND	ND				
	5/12/05	ND	ND	ND	ND	ND				
	3/15/06	ND	ND	ND	ND	ND				
	7/26/06	ND	ND	ND	ND	ND				
	11/21/06	ND	ND	ND	ND	ND				
	3/13/07	ND	ND	ND	ND	ND				
	6/27/07	ND	ND	ND	ND	ND				
	9/26/07	ND	ND	ND	ND	ND				
	12/21/07	ND	ND	ND	ND	ND				
	3/25/08	ND	ND	ND	ND	ND				
	6/30/08	ND	ND	ND	ND	ND				
	9/23/08	ND	ND	ND	ND	ND		ND	ND	
	12/4/08	ND	ND	ND	ND	ND				
	3/19/09	Not Sampled								
	6/25/09	Not Sampled								
	12/3/09	Not Sampled								
	12/3/09	Not Sampled								
	3/31/10	Not Sampled								
	6/30/10	Not Sampled								
	5/8/12	Not Sampled								
	11/16/12	Not Sampled								
	5/2/13	Not Sampled								
	10/1/13	Not Sampled								
	4/23/14	Not Sampled								
	10/7/14	Not Sampled								
	3/11/15	Not Sampled								
	9/10/15	Not Sampled								
	5/21/16	Not Sampled								
	9/20/16	Not Sampled								
	4/19/17	Not Sampled								
	9/16/17	Not Sampled								
	3/14/18	Not Sampled								
<hr/>										
GW1	1/24/03	120.00	ND	ND	ND	ND				4.95
	4/3/03	ND	2.66	ND	ND	ND				4.67
	7/30/03	148.00	1.28	2.12	3.37	31.40	ND	ND	ND	7.51
	12/10/03	ND	ND	ND	ND	ND				7.77
	4/9/04	ND	ND	ND	ND	ND				4.14
	9/7/04	ND	8.78	ND	ND	ND				7.79
	2/17/05	ND	13.70	ND	MD	ND				5.84
	5/12/05	ND	3.20	ND	ND	ND				
	10/25/2005*									
	3/15/06	ND	0.79	ND	ND	ND				4.00
	7/26/06	1540.00	684.00	ND	ND	8.77				7.95
	11/21/06	ND	2.24	ND	ND	ND				8.35
	3/13/07	ND	ND	ND	ND	ND				4.55
	6/28/07	1850.00	1090.00	ND	ND	3.59				7.33
	9/26/07	3720.00	954.00	217.00	87.00	467.00				9.72
	12/21/07	ND	1.68	ND	ND	ND				7.53
	3/25/08	ND	ND	ND	ND	ND				3.94
	6/30/08	ND	ND	ND	ND	ND				6.57
	9/23/08	ND	ND	ND	ND	ND		ND	ND	8.31
	12/4/08	ND	ND	ND	ND	ND				7.66
	3/19/09	ND	ND	ND	ND	ND				2.48
	6/25/09	ND	ND	ND	ND	ND				6.50
	12/3/09	ND	ND	ND	ND	ND				6.96
	3/31/10	ND	ND	ND	ND	ND				4.71
	6/24/10	ND	ND	ND	ND	ND				5.19
	11/12/10	ND	ND	ND	ND	ND				Bad Probe
	4/25/11	ND	ND	ND	ND	ND				3.01

Well ID	Date	TPH-G	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	Heavy Oil	SWL	
GW7	1/24/03	ND	ND	ND	ND	ND				7.52	
	4/3/03	ND	ND	ND	ND	ND				6.43	
	7/30/03	ND	ND	ND	ND	4.06	ND	ND	ND	9.44	
	12/10/03	ND	ND	ND	ND	ND				9.79	
	4/9/04	ND	1.06	ND	ND	ND				7.65	
	9/7/04	ND	ND	ND	ND	ND				10.10	
	2/17/05	ND	4.26	ND	ND	ND				8.32	
	5/12/05	ND	ND	ND	ND	ND				8.20	
	10/25/2005*										
	3/15/06	ND	ND	ND	ND	ND					6.05
	7/26/06	ND	1.45	ND	ND	ND					9.41
	11/21/06	ND	ND	ND	ND	ND					10.30
	3/13/07	ND	0.55	ND	ND	ND					7.35
	6/28/07	ND	ND	ND	ND	ND					9.02
	9/26/07	ND	ND	ND	ND	ND					11.45
	12/21/07	ND	ND	ND	ND	ND					9.62
	3/25/08	ND	ND	ND	ND	ND					6.55
	6/30/08	ND	ND	ND	ND	ND					8.35
	9/23/08	ND	ND	ND	ND	ND			ND	ND	10.36
	12/4/08	ND	ND	ND	ND	ND					9.87
	3/19/09	ND	ND	ND	ND	ND					5.38
	6/25/09	ND	ND	ND	ND	ND					7.26
	12/3/09	ND	ND	ND	ND	ND					9.36
	3/31/10	ND	ND	ND	ND	ND					7.10
	6/24/10	Not Sampled									7.97
	11/12/10	Not Sampled									
	4/25/11	Not Sampled									
	11/21/11	Not Sampled									
	5/8/12	Not Sampled									
	11/16/12	Not Sampled									
	5/2/13	Not Sampled									
	10/1/13	Not Sampled									
4/23/14	Not Sampled										
10/7/14	Not Sampled										
3/11/15	Not Sampled										
9/10/15	Not Sampled										
5/21/16	Not Sampled										
9/20/16	Not Sampled										
4/19/17	Not Sampled										
9/16/17	Not Sampled										
3/14/18	Not Sampled										
GW9	1/24/03	ND	ND	ND	ND	ND				7.97	
	4/3/03	ND	ND	ND	ND	ND				6.80	
	7/30/03	ND	0.70	ND	1.12	8.94	ND	ND	578.00	9.68	
	12/10/03	118.00	0.89	5.71	ND	8.96				9.98	
	4/9/04	ND	ND	ND	ND	ND				7.24	
	9/7/04	ND	ND	ND	ND	3.49				10.30	
	2/17/05	ND	2.39	ND	ND	ND				8.48	
	5/12/05	ND	ND	ND	ND	ND				8.69	
	10/25/2005*										
	3/15/06	ND	ND	ND	ND	ND					6.77
	7/26/06	119.00	0.85	ND	ND	ND					***
	11/21/06	ND	ND	ND	ND	ND					***
	3/13/07	ND	ND	ND	ND	ND					***
	6/28/07	ND	ND	ND	ND	ND					***
	9/26/07	ND	ND	ND	ND	ND					***
	12/21/07	ND	ND	ND	ND	ND					***
	3/25/08	ND	ND	ND	ND	ND					***
	6/30/08	ND	ND	ND	ND	ND					***
	9/23/08	ND	ND	ND	ND	ND			ND	ND	***
	12/4/08	ND	ND	ND	ND	ND					***
	3/19/09	ND	ND	ND	ND	ND					***
	6/25/09	ND	ND	ND	ND	ND					***
	12/3/09	ND	ND	ND	ND	ND					***
	3/31/10	ND	ND	ND	ND	ND					***
	6/30/10	Not Sampled									
	11/12/10	Not Sampled									
	4/25/11	Not Sampled									
	11/21/11	Not Sampled									
	5/8/12	Not Sampled									
	11/16/12	Not Sampled									
	5/2/13	Not Sampled									
	10/1/13	Not Sampled									
4/23/14	Not Sampled										
10/7/14	Not Sampled										
3/11/15	Not Sampled										
9/10/15	Not Sampled										
5/21/16	Not Sampled										
9/20/16	Not Sampled										
4/19/17	Not Sampled										
9/16/17	Not Sampled										
3/14/18	Not Sampled										
Method A Std. (µg/L)		1000.0	5.0	40.0	30.0	20.0	N/A	1000.00	1000.00		
Shaded Cell Indicates Exceedence of WDOE Method A Cleanup Standards (WAC 173-340, December, 1993)											
*No sample taken-free product in well											
**Static Water Level Survey Only											
***No SWL measurement-casing bent or probe malfunction											

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

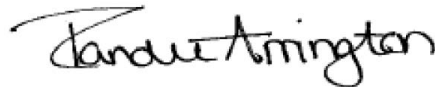
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: 590-8200-1
Client Project/Site: Dusty/117

For:
Quantum Engineering
S. 2641 Silver Beach Lp.
Coeur d Alene, Idaho 83824

Attn: Jim DeSmet



Authorized for release by:
3/23/2018 12:57:18 PM

Randee Arrington, Project Manager II
(509)924-9200
randee.arrington@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Job ID: 590-8200-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The samples were received on 3/19/2018 2:12 PM; the samples arrived in good condition. The temperature of the cooler at receipt was 7.3° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW2 (590-8200-1), MW3 (590-8200-2), MW4 (590-8200-3), MW5 (590-8200-4), GW1 (590-8200-5) and GW3 (590-8200-6).

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: MW2 (590-8200-1), MW3 (590-8200-2), MW4 (590-8200-3), MW5 (590-8200-4), GW1 (590-8200-5) and GW3 (590-8200-6).

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-8200-1	MW2	Water	03/14/18 00:00	03/19/18 14:12
590-8200-2	MW3	Water	03/14/18 00:00	03/19/18 14:12
590-8200-3	MW4	Water	03/14/18 00:00	03/19/18 14:12
590-8200-4	MW5	Water	03/14/18 00:00	03/19/18 14:12
590-8200-5	GW1	Water	03/14/18 00:00	03/19/18 14:12
590-8200-6	GW3	Water	03/14/18 00:00	03/19/18 14:12

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Definitions/Glossary

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Client Sample ID: MW2

Lab Sample ID: 590-8200-1

Date Collected: 03/14/18 00:00

Matrix: Water

Date Received: 03/19/18 14:12

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.4		0.40		ug/L			03/20/18 13:29	1
Ethylbenzene	ND		1.0		ug/L			03/20/18 13:29	1
m,p-Xylene	ND		2.0		ug/L			03/20/18 13:29	1
Methyl tert-butyl ether	4.3		1.0		ug/L			03/20/18 13:29	1
o-Xylene	ND		1.0		ug/L			03/20/18 13:29	1
Toluene	ND		1.0		ug/L			03/20/18 13:29	1
Xylenes, Total	ND		3.0		ug/L			03/20/18 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 125		03/20/18 13:29	1
4-Bromofluorobenzene (Surr)	105		69 - 120		03/20/18 13:29	1
Dibromofluoromethane (Surr)	97		80 - 120		03/20/18 13:29	1
Toluene-d8 (Surr)	99		80 - 120		03/20/18 13:29	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	220		150		ug/L			03/20/18 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		68.7 - 141		03/20/18 13:29	1

Client Sample ID: MW3

Lab Sample ID: 590-8200-2

Date Collected: 03/14/18 00:00

Matrix: Water

Date Received: 03/19/18 14:12

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.0		0.40		ug/L			03/20/18 15:21	1
Ethylbenzene	ND		1.0		ug/L			03/20/18 15:21	1
m,p-Xylene	ND		2.0		ug/L			03/20/18 15:21	1
Methyl tert-butyl ether	12		1.0		ug/L			03/20/18 15:21	1
o-Xylene	ND		1.0		ug/L			03/20/18 15:21	1
Toluene	ND		1.0		ug/L			03/20/18 15:21	1
Xylenes, Total	ND		3.0		ug/L			03/20/18 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 125		03/20/18 15:21	1
4-Bromofluorobenzene (Surr)	98		69 - 120		03/20/18 15:21	1
Dibromofluoromethane (Surr)	105		80 - 120		03/20/18 15:21	1
Toluene-d8 (Surr)	101		80 - 120		03/20/18 15:21	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150		ug/L			03/20/18 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141		03/20/18 15:21	1

TestAmerica Spokane

Client Sample Results

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Client Sample ID: MW4

Lab Sample ID: 590-8200-3

Date Collected: 03/14/18 00:00

Matrix: Water

Date Received: 03/19/18 14:12

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40		ug/L			03/20/18 13:52	1
Ethylbenzene	ND		1.0		ug/L			03/20/18 13:52	1
m,p-Xylene	ND		2.0		ug/L			03/20/18 13:52	1
Methyl tert-butyl ether	15		1.0		ug/L			03/20/18 13:52	1
o-Xylene	ND		1.0		ug/L			03/20/18 13:52	1
Toluene	ND		1.0		ug/L			03/20/18 13:52	1
Xylenes, Total	ND		3.0		ug/L			03/20/18 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 125		03/20/18 13:52	1
4-Bromofluorobenzene (Surr)	100		69 - 120		03/20/18 13:52	1
Dibromofluoromethane (Surr)	103		80 - 120		03/20/18 13:52	1
Toluene-d8 (Surr)	101		80 - 120		03/20/18 13:52	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150		ug/L			03/20/18 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		03/20/18 13:52	1

Client Sample ID: MW5

Lab Sample ID: 590-8200-4

Date Collected: 03/14/18 00:00

Matrix: Water

Date Received: 03/19/18 14:12

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40		ug/L			03/20/18 14:14	1
Ethylbenzene	ND		1.0		ug/L			03/20/18 14:14	1
m,p-Xylene	ND		2.0		ug/L			03/20/18 14:14	1
Methyl tert-butyl ether	4.1		1.0		ug/L			03/20/18 14:14	1
o-Xylene	ND		1.0		ug/L			03/20/18 14:14	1
Toluene	ND		1.0		ug/L			03/20/18 14:14	1
Xylenes, Total	ND		3.0		ug/L			03/20/18 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 125		03/20/18 14:14	1
4-Bromofluorobenzene (Surr)	101		69 - 120		03/20/18 14:14	1
Dibromofluoromethane (Surr)	106		80 - 120		03/20/18 14:14	1
Toluene-d8 (Surr)	104		80 - 120		03/20/18 14:14	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150		ug/L			03/20/18 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		03/20/18 14:14	1

TestAmerica Spokane

Client Sample Results

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Client Sample ID: GW1

Lab Sample ID: 590-8200-5

Date Collected: 03/14/18 00:00

Matrix: Water

Date Received: 03/19/18 14:12

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40		ug/L			03/20/18 14:36	1
Ethylbenzene	ND		1.0		ug/L			03/20/18 14:36	1
m,p-Xylene	ND		2.0		ug/L			03/20/18 14:36	1
Methyl tert-butyl ether	1.8		1.0		ug/L			03/20/18 14:36	1
o-Xylene	ND		1.0		ug/L			03/20/18 14:36	1
Toluene	ND		1.0		ug/L			03/20/18 14:36	1
Xylenes, Total	ND		3.0		ug/L			03/20/18 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 125		03/20/18 14:36	1
4-Bromofluorobenzene (Surr)	101		69 - 120		03/20/18 14:36	1
Dibromofluoromethane (Surr)	106		80 - 120		03/20/18 14:36	1
Toluene-d8 (Surr)	100		80 - 120		03/20/18 14:36	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150		ug/L			03/20/18 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		03/20/18 14:36	1

Client Sample ID: GW3

Lab Sample ID: 590-8200-6

Date Collected: 03/14/18 00:00

Matrix: Water

Date Received: 03/19/18 14:12

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40		ug/L			03/20/18 14:58	1
Ethylbenzene	ND		1.0		ug/L			03/20/18 14:58	1
m,p-Xylene	ND		2.0		ug/L			03/20/18 14:58	1
Methyl tert-butyl ether	2.7		1.0		ug/L			03/20/18 14:58	1
o-Xylene	ND		1.0		ug/L			03/20/18 14:58	1
Toluene	ND		1.0		ug/L			03/20/18 14:58	1
Xylenes, Total	ND		3.0		ug/L			03/20/18 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 125		03/20/18 14:58	1
4-Bromofluorobenzene (Surr)	99		69 - 120		03/20/18 14:58	1
Dibromofluoromethane (Surr)	106		80 - 120		03/20/18 14:58	1
Toluene-d8 (Surr)	101		80 - 120		03/20/18 14:58	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150		ug/L			03/20/18 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		03/20/18 14:58	1

TestAmerica Spokane

QC Sample Results

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-16019/6

Matrix: Water

Analysis Batch: 16019

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.40		ug/L			03/20/18 11:38	1
Ethylbenzene	ND		1.0		ug/L			03/20/18 11:38	1
m,p-Xylene	ND		2.0		ug/L			03/20/18 11:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			03/20/18 11:38	1
o-Xylene	ND		1.0		ug/L			03/20/18 11:38	1
Toluene	ND		1.0		ug/L			03/20/18 11:38	1
Xylenes, Total	ND		3.0		ug/L			03/20/18 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 125		03/20/18 11:38	1
4-Bromofluorobenzene (Surr)	103		69 - 120		03/20/18 11:38	1
Dibromofluoromethane (Surr)	100		80 - 120		03/20/18 11:38	1
Toluene-d8 (Surr)	103		80 - 120		03/20/18 11:38	1

Lab Sample ID: LCS 590-16019/1004

Matrix: Water

Analysis Batch: 16019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.6		ug/L		106	80 - 120
Ethylbenzene	10.0	9.61		ug/L		96	80 - 120
m,p-Xylene	10.0	9.35		ug/L		93	80 - 120
Methyl tert-butyl ether	10.0	10.9		ug/L		109	71 - 128
o-Xylene	10.0	9.06		ug/L		91	80 - 120
Toluene	10.0	9.76		ug/L		98	80 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 125
4-Bromofluorobenzene (Surr)	99		69 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: LCSD 590-16019/7

Matrix: Water

Analysis Batch: 16019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	9.91		ug/L		99	80 - 120	6	25
Ethylbenzene	10.0	9.48		ug/L		95	80 - 120	1	25
m,p-Xylene	10.0	9.51		ug/L		95	80 - 120	2	25
Methyl tert-butyl ether	10.0	10.5		ug/L		105	71 - 128	4	12
o-Xylene	10.0	9.15		ug/L		91	80 - 120	1	25
Toluene	10.0	9.95		ug/L		100	80 - 123	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 125
4-Bromofluorobenzene (Surr)	104		69 - 120

TestAmerica Spokane

QC Sample Results

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-16019/7

Matrix: Water

Analysis Batch: 16019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-16020/6

Matrix: Water

Analysis Batch: 16020

Client Sample ID: Method Blank

Prep Type: Total/NA

<i>Analyte</i>	<i>MB</i> <i>Result</i>	<i>MB</i> <i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Gasoline	ND		150		ug/L			03/20/18 11:38	1

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	103		68.7 - 141		03/20/18 11:38	1

Lab Sample ID: LCS 590-16020/1005

Matrix: Water

Analysis Batch: 16020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>
Gasoline	1000	946		ug/L		95	80 - 120

<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	104		68.7 - 141

Lab Sample ID: LCSD 590-16020/1017

Matrix: Water

Analysis Batch: 16020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCSD</i> <i>Result</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i> <i>RPD</i>	<i>Limit</i>
Gasoline	1000	1030		ug/L		103	80 - 120	9	20

<i>Surrogate</i>	<i>LCSD</i> <i>%Recovery</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	103		68.7 - 141

Lab Chronicle

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Client Sample ID: MW2

Date Collected: 03/14/18 00:00

Date Received: 03/19/18 14:12

Lab Sample ID: 590-8200-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	16019	03/20/18 13:29	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	16020	03/20/18 13:29	MRS	TAL SPK

Client Sample ID: MW3

Date Collected: 03/14/18 00:00

Date Received: 03/19/18 14:12

Lab Sample ID: 590-8200-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	16019	03/20/18 15:21	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	16020	03/20/18 15:21	MRS	TAL SPK

Client Sample ID: MW4

Date Collected: 03/14/18 00:00

Date Received: 03/19/18 14:12

Lab Sample ID: 590-8200-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	16019	03/20/18 13:52	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	16020	03/20/18 13:52	MRS	TAL SPK

Client Sample ID: MW5

Date Collected: 03/14/18 00:00

Date Received: 03/19/18 14:12

Lab Sample ID: 590-8200-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	16019	03/20/18 14:14	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	16020	03/20/18 14:14	MRS	TAL SPK

Client Sample ID: GW1

Date Collected: 03/14/18 00:00

Date Received: 03/19/18 14:12

Lab Sample ID: 590-8200-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	16019	03/20/18 14:36	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	16020	03/20/18 14:36	MRS	TAL SPK

Client Sample ID: GW3

Date Collected: 03/14/18 00:00

Date Received: 03/19/18 14:12

Lab Sample ID: 590-8200-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	16019	03/20/18 14:58	MRS	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Client Sample ID: GW3

Lab Sample ID: 590-8200-6

Date Collected: 03/14/18 00:00

Matrix: Water

Date Received: 03/19/18 14:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	16020	03/20/18 14:58	MRS	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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- 12

Accreditation/Certification Summary

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Laboratory: TestAmerica Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C569	01-06-19

Analysis Method	Prep Method	Matrix	Analyte
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- 10
- 11
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Method Summary

Client: Quantum Engineering
Project/Site: Dusty/117

TestAmerica Job ID: 590-8200-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



590-8200 Chain of Custody

11922 E. First Ave., Spokane WA 99206-5302
 105 SW Nimbus Ave., Beaverton, OR 97008-7145
 Airport Rd Ste A10, Anchorage, AK 99502-1119

509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

3/23/2018

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days *

10 Organic & Inorganic Analyses
 7 Petroleum Hydrocarbon Analyses
 5 STD.

4
 3
 2
 1
 <1

OTHER Specify:

* Turnaround Request less than standard may incur Rush Charges

CLIENT:		INVOICE TO:		TURNAROUND REQUEST			
REPORT TO: <i>Quantum</i>		Quantum		In Business Days *			
ADDRESS: <i>208-64-5200</i>		P.O. NUMBER:		<input checked="" type="radio"/> 10 Organic & Inorganic Analyses <input type="radio"/> 7 Petroleum Hydrocarbon Analyses <input type="radio"/> 5 STD.			
PHONE: <i>208-64-5200</i>		PRESERVATIVE:		<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
PROJECT NAME: <i>Deerly Corp -</i>		REQUESTED ANALYSES:		OTHER Specify:			
PROJECT NUMBER: <i>117</i>		NUTRA GAS BTEX		* Turnaround Request less than standard may incur Rush Charges			
SAMPLED BY: <i>JSD</i>							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DATE/TIME	DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 <i>MCC22</i>	<i>3/14/18</i>				<i>2</i>	<i>40C HCL</i>	
2 <i>MCC23</i>							
3 <i>MCC4</i>							
4 <i>MCC5</i>							
5 <i>GWS1</i>							
6 <i>GWS3</i>							
7							
8							
9							
10							
RELEASED BY: <i>Jim Hall</i>		DATE: <i>3/19/18</i>		RECEIVED BY: <i>Shawn Kraz</i>		DATE: <i>3/19/18</i>	
PRINT NAME: <i>Jim Nesmet</i>		FIRM: <i>Quantum</i>		PRINT NAME:		DATE: <i>4/12</i>	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:	
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:	
ADDITIONAL REMARKS:		DATE:		PRINT NAME:		DATE:	

TEMP: *1.39*
 PAGE: *1* OF *1*
 IROCK4000 (0714)

Login Sample Receipt Checklist

Client: Quantum Engineering

Job Number: 590-8200-1

Login Number: 8200

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

Question	Answer	Comment
Radioactivity wasn't checked or is <=/= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.