

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 085 - 10301 County Ritchie District Clay  
 Quad Pennsboro 7.5' Pad Name Mulvay Pad Field/Pool Name -----  
 Farm name Edwin D. Mulvay et al Well Number Trust Unit 1H  
 Operator (as registered with the OOG) Antero Resources Corporation  
 Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
 Top hole Northing 4352575m Easting 508711m  
 Landing Point of Curve Northing 4352421.31m Easting 508586.43m  
 Bottom Hole Northing 4349475m Easting 509595m

Elevation (ft) 1029' GL Type of Well  New  Existing Type of Report  Interim  Final  
 Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
 Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
 Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
 Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
 Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
 Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)

Air - Foam & 4% KCL

Mud - Polymer

Date permit issued 9/29/2015 Date drilling commenced 12/23/2016 Date drilling ceased 7/5/2017  
 Date completion activities began 1/22/2018 Date completion activities ceased 8/15/2018  
 Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 24', 76', 124', 422' Open mine(s) (Y/N) depths No  
 Salt water depth(s) ft 1522', 1949' Void(s) encountered (Y/N) depths No  
 Coal depth(s) ft 653', 664' Cavern(s) encountered (Y/N) depths No  
 Is coal being mined in area (Y/N) No

Reviewed by:  
\_\_\_\_\_

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	95'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	554'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2583'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17063'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6553'		4.7#, N-80		
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	204 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	556 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	983 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	741 sx (Lead) 1532 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	3774	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17063' MD, 6437' TVD (BHL), 6437' (Deepest Point Drilled) Loggers TD (ft) 17063' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5800'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

Conductor - 0

Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface

Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface

Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A





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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6354' (TOP)	TVD	6588' (TOP) MD
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 6254 mcfpd Oil 21 bpd NGL --- bpd Water 2 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
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**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

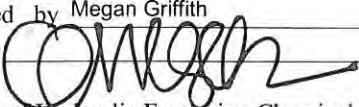
Drilling Contractor Frontier Drilling LLC  
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Allied Horizontal Wireline Services  
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642

Cementing Company C&J Energy Services  
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes  
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223  
Signature  Title Permitting Agent Date 4/3/2019

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API 47-085-10301 Farm Name <u>Edwin D. Mulvay et al</u> Well Number <u>Trust Unit 1H</u>					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/4/2018	16794	16962	60	Marcellus
2	5/5/2018	16594	16679	60	Marcellus
3	5/5/2018	16395	16480	60	Marcellus
4	5/6/2018	16196	16281	60	Marcellus
5	5/6/2018	15997	16082	60	Marcellus
6	5/6/2018	15797	15882	60	Marcellus
7	5/7/2018	15598	15683	60	Marcellus
8	5/7/2018	15399	15484	60	Marcellus
9	5/7/2018	15200	15285	60	Marcellus
10	5/8/2018	15000	15085	60	Marcellus
11	5/12/2018	14801	14886	60	Marcellus
12	5/12/2018	14602	14687	60	Marcellus
13	5/13/2018	14403	14488	60	Marcellus
14	5/13/2018	14203	14288	60	Marcellus
15	5/13/2018	14004	14089	60	Marcellus
16	5/14/2018	13805	13890	60	Marcellus
17	5/14/2018	13606	13691	60	Marcellus
18	5/14/2018	13406	13491	60	Marcellus
19	5/14/2018	13207	13292	60	Marcellus
20	5/15/2018	13008	13093	60	Marcellus
21	5/15/2018	12809	12894	60	Marcellus
22	5/16/2018	12609	12694	60	Marcellus
23	5/16/2018	12410	12495	60	Marcellus
24	5/16/2018	12211	12296	60	Marcellus
25	5/16/2018	12012	12097	60	Marcellus
26	5/17/2018	11812	11897	60	Marcellus
27	5/17/2018	11613	11698	60	Marcellus
28	5/17/2018	11414	11499	60	Marcellus
29	5/18/2018	11215	11300	60	Marcellus
30	5/19/2018	11015	11100	60	Marcellus
31	5/19/2018	10816	10901	60	Marcellus
32	5/19/2018	10617	10702	60	Marcellus
33	5/20/2018	10418	10503	60	Marcellus
34	5/20/2018	10218	10303	60	Marcellus
35	5/20/2018	10019	10104	60	Marcellus
36	5/21/2018	9820	9905	60	Marcellus
37	5/21/2018	9621	9706	60	Marcellus
38	5/21/2018	9421	9506	60	Marcellus
39	5/22/2018	9222	9307	60	Marcellus
40	5/22/2018	9023	9108	60	Marcellus
41	5/22/2018	8824	8909	60	Marcellus
42	5/23/2018	8624	8709	60	Marcellus
43	5/23/2018	8425	8510	60	Marcellus
44	5/23/2018	8226	8311	60	Marcellus
45	5/24/2018	8027	8112	60	Marcellus
46	5/24/2018	7827	7912	60	Marcellus
47	5/24/2018	7628	7713	60	Marcellus
48	5/25/2018	7429	7514	60	Marcellus
49	5/25/2018	7230	7315	60	Marcellus
50	5/25/2018	7030	7116	60	Marcellus
51	5/25/2018	6831	6916	60	Marcellus
52	5/26/2018	6632	6717	60	Marcellus



API 47-085-10301 Farm Name Edwin D. Mulvay et al Well Number Trust Unit 1H								
EXHIBIT 2								
Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	5/4/2018	76.6138	7307.935	4583	4611	412330	8716	N/A
2	5/5/2018	74.3497	7449.892	4979	4121	414970	8437	N/A
3	5/5/2018	76.5	7647.3	5259	3694	414210	8526	N/A
4	5/6/2018	77.1	7706.8	5419	3641	415610	8469	N/A
5	5/6/2018	77.4627	7497.987	5608	3827	412890	8435	N/A
6	5/6/2018	74.5	7404.3	5708	3963	414530	8593	N/A
7	5/7/2018	77.6388	7626.39	5874	4104	417660	8502	N/A
8	5/7/2018	77.4897	7256.49	5660	3681	417080	8404	N/A
9	5/7/2018	76.9958	7476.642	5676	3856	414400	8470	N/A
10	5/8/2018	68.943	6993.192	5695	3607	413510	8323	N/A
11	5/12/2018	79.2234	7358.72	5051	3923	413200	8534	N/A
12	5/12/2018	74.7434	7508.099	5734	3815	412900	8570	N/A
13	5/13/2018	71.7216	7507.611	6058	3503	413500	8451	N/A
14	5/13/2018	76.5314	7230.017	4657	3487	415900	8345	N/A
15	5/13/2018	78.3706	7072.494	5617	3881	414100	8531	N/A
16	5/14/2018	77.8496	7278.704	4417	3611	414400	8757	N/A
17	5/14/2018	76.4	7397.3	5450	3604	408880	8404	N/A
18	5/14/2018	77.9073	7297.168	5747	3705	415800	8350	N/A
19	5/14/2018	75.7	7305	5945	3801	413900	9739	N/A
20	5/15/2018	77.2	7394.3	5990	3476	414320	8240	N/A
21	5/15/2018	59.1	8065.2	5584	3643	413020	14330	N/A
22	5/16/2018	78.6581	7047.364	5762	3985	414500	8521	N/A
23	5/16/2018	76.3	6975.474	4901	3663	407730	8197	N/A
24	5/16/2018	75.2445	7258.616	6022	3572	410780	8098	N/A
25	5/16/2018	79.2391	6964.618	4475	3530	412500	8370	N/A
26	5/17/2018	77.4	7278.7	5445	3482	414250	9189	N/A
27	5/17/2018	77.1	7013.3	5325	3543	418430	8431	N/A
28	5/17/2018	78.2854	6829.085	5749	3699	415900	8415	N/A
29	5/18/2018	74.1	7165.4	5729	3553	418890	8270	N/A
30	5/19/2018	75.1036	7569.053	5835	3528	415100	8302	N/A
31	5/19/2018	72.7	7820.4	5557	3298	409980	9196	N/A
32	5/19/2018	78.9367	6782.833	4644	3646	416100	8370	N/A
33	5/20/2018	78.0035	7202.667	5263	3830	416800	8724	N/A
34	5/20/2018	78.4	6806.7	5526	3715	415030	8263	N/A
35	5/20/2018	77.5763	6890.359	5522	3640	413500	8311	N/A
36	5/21/2018	77.8	6764.4	5723	3547	415070	8169	N/A
37	5/21/2018	79.642	6705.339	5127	3470	416050	8179	N/A
38	5/21/2018	79.4484	6647.311	5721	3527	412960	8296	N/A
39	5/22/2018	78.8859	6540.05	5595	3555	400310	8145	N/A
40	5/22/2018	77.8	6700.4	6166	3701	425130	8288	N/A
41	5/22/2018	77.485	6646.255	4924	3751	412250	8116	N/A
42	5/23/2018	76.1	6857.4	6190	3333	419240	8132	N/A
43	5/23/2018	78.4	7017.2	5889	3331	416110	8194	N/A
44	5/23/2018	75.5703	6291.862	5785	3153	414870	8128	N/A
45	5/24/2018	77.1032	6711.377	6075	3095	412890	8187	N/A
46	5/24/2018	74.4	7358.3	6104	3271	413570	8165	N/A
47	5/24/2018	77.1495	6789.494	5664	3190	415150	8095	N/A
48	5/25/2018	77.9	6499.1	5736	3319	414470	8149	N/A
49	5/25/2018	79.4	6404.4	5902	3304	411840	8047	N/A
50	5/25/2018	78.1398	6311.935	5600	3174	414769	8038	N/A
51	5/25/2018	75.8004	6192.309	6675	3304	413560	8008	N/A
52	5/26/2018	79.2	6277.4	5706	3430	427610	8489	N/A
	AVG=	76.3	7,166	5,517	3,652	19,055,050	393,782	TOTAL

API 47-085-10301 Farm Name <u>Edwin D. Mulvay et al</u> Well Number Trust Unit 1H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Silty Sandstone	-15	105	-15	105
Sandy siltstone	105	145	105	145
Shale	145	185	145	185
Sandstone	185	305	185	305
Sandy Shale	305	545	305	545
Silty Shale	545	745	545	745
Sandy siltstone	745	885	745	885
silty shale	885	1,005	885	1,005
Sandy siltstone	1,005	1,115	1,005	1,115
Shaly Siltstone	1,115	1,345	1,115	1,345
Sandstone	1,345	1,525	1,345	1,525
Sandy siltstone	1,525	1,645	1,525	1,645
Silty Sandstone	1,645	1,866	1,645	1,867
Big Lime	1,881	2,066	1,882	2,068
Big Injun	2,066	2,431	2,068	2,435
Gantz Sand	2,431	2,677	2,435	2,684
Fifty Foot Sandstone	2,677	2,848	2,684	2,856
Gordon	2,848	3,005	2,856	3,014
Fifth Sandstone	3,005	3,279	3,014	3,292
Bayard	3,279	3,376	3,292	3,391
Warren	3,376	3,742	3,391	3,761
Speechley	3,742	4,498	3,761	4,524
Balltown	3,955	4,884	3,976	4,916
Bradford	4,498	4,884	4,524	4,916
Benson	4,884	5,119	4,916	5,153
Alexander	5,119	5,724	5,153	5,765
Rhinestreet	5,700	6,058	5,741	6,118
Sycamore	6,058	6,179	6,118	6,268
Middlesex	6,179	6,293	6,268	6,441
Burkett	6,293	6,327	6,441	6,512
Tully	6,327	6,354	6,512	6,588
Marcellus	6,354	NA	6,588	NA

\*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/4/2018
Job End Date:	5/26/2018
State:	West Virginia
County:	Richie
API Number:	47-085-10301-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Trust 1H
Latitude:	39.32259708
Longitude:	-80.89910740
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,435
Total Base Water Volume (gal):	19,292,982
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Abstract Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	87.98956	
Sand	J.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-17.5%)	J.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	11.78589	
LGC-15	J.S. Well Services, LLC	Gelling Agents	Water Hydrogen Chloride	7732-18-5 7647-01-0	87.40000 17.50000	0.11946 0.02778	
WFRA-405	J.S. Well Services, LLC	Friction Reducer	Guar Gum Petroleum Distillates Suspending agent (solid) Surfactant	9000-30-0 64742-47-8 14808-60-7 68439-51-0	50.00000 60.00000 3.00000 3.00000	0.01841 0.01743 0.00282 0.00110	
			2-Propenoic acid, polymer with 2-propenamide Hydrated light distillate (petroleum)	29003-06-9 64742-47-8	30.00000 30.00000	0.01584 0.01275	



Bioclear 2000	J.S. Well Services, LLC	Anti-Bacterial Agent	2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00449
			Deionized Water	7732-18-5	28.00000	0.00257
SI-1200s	J.S. Well Services, LLC	Scale Inhibitor	Proprietary Scale Inhibitor	Proprietary	10.00000	0.00130
AP One	J.S. Well Services, LLC	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00000	0.00053
AI-303	J.S. Well Services, LLC	Acid Corrosion Inhibitors	Ethylene glycol	107-21-1	40.00000	0.00004
			Cinnamaldehyde	104-55-2	20.00000	0.00001
			Formic acid	64-18-6	20.00000	0.00001
			Butyl cellosolve	111-76-2	20.00000	0.00001
			Polyether	60828-78-6	10.00000	0.00001
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00000

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water  
 \*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Discharge Monitoring Report  
Oil and Gas General Permit

Company Name: Antero Resources Corporation  
 API No: 47-085-10301 County: Ritchie  
 District: Clay Well No: Trust Unit 1H  
 Farm Name: Edwin D. Mulvay et al  
 Discharge Date/s From: (MMDDYY) 08/24/18 To: (MMDDYY) 09/23/18  
 Discharge Times. From: 0:00 To: 24:00  
 Total Volume to be Disposed from this facility (gallons): 760,649  
 Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: \_\_\_\_\_ (Include a topographical map of the Area.)
- (2) UIC: 193,373 Permit No. 3400923821, 3416729543, 3416729464, 3416729445, 3410523619, 3416729731, 3400923761, 3405320968, 3410523268,
- (3) Offsite Disposal: 305 Site Location: Mud Masters
- (4) Reuse: 566, 970 Alternate Permit Number: \_\_\_\_\_
- (5) Centralized Facility: \_\_\_\_\_ Permit No. \_\_\_\_\_
- (6) Other method: \_\_\_\_\_ (Include an explanation)

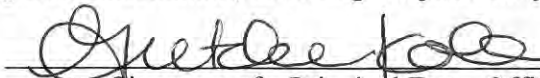
Follow Instructions below to determine your treatment category:

Optional Pretreatment test: N/A Cl- mg/l N/A DO mg/l

1. Do you have permission to use expedited treatment from the Director or his representative? (Y/N) N/A If yes, who? \_\_\_\_\_ and place a four (4) on line 7. If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) N/A If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) N/A If yes, go to line 4 If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) N/A If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) N/A If yes, go to line 6 If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l?(Y/N) N/A If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. N/A is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: N/A No pit on site.

Name of Principal Exec. Officer: Gretchen Kohler  
 Title of Officer: Senior Environmental and Regulatory Manager  
 Date Completed: 10/30/18

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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 of a Principal Exec. Officer or Authorized agent.



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Category 1  
Sampling Results  
API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\*\*\* Al is only reported if the pH is above 9.0

Category 2  
Sampling Results  
API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval.

(Inspector's signature): \_\_\_\_\_

Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

Aeration Code: \_\_\_\_\_

\*\*\* Al is only reported if the pH is above 9.0

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Category 3  
Sampling Results  
API No : \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_ Date: \_\_\_\_\_  
 \*\* Include a description of your aeration technique. Aeration Code: \_\_\_\_\_  
 \*\*\* Al is only reported if the pH is above 9.0.

Category 4  
Sampling Results  
API No: \_\_\_\_\_

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon (0.175)		_____	N/A	N/A	lb/B1
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector's signature): \_\_\_\_\_ Date: \_\_\_\_\_