TRA-DET INC.
P.O. BOX 2019
WHEELING, WV 26003-0219
(304) 547-8094
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SHIPPING ADDRESS
2598 BATTLE RUN ROAD
TRIADELPHIA, WV 26059-9309

LABORATORY ANALYSES

American Energy Corporation
43521 Mayhugh Hill Rd. Twp Hwy 88
Beallsville, OH 43716
Attn: Mr. Fred Blumling

17-Mar-09

By: William Shryn
TraDet, Inc.

Company: American Energy Corporation
Source: D-2
SWL/Flow: 0.06 cfs
Date & Time Sampled: 02-12-09 1150
Analysis Number: 0902282

Sample Type: Pre-permit D0425-14
Sampled By: QES (MS)
Date & Time Received: 02-13-09 0900

Field pH, S.U. 8.20

PARAMETER	CONCENTRATION		DATE & TIME ANALYZED	ANALYST	METHOD	PQL	
Total Acidity (as $CaCO_3$)	<5	mg/L	02-20-09 0842	WB	2310B (4 [2]	5	mg/L
Total Alkalinity (as $CaCO_3$)	18	mg/L	02-18-09 1020	WB	2320B [2]	5	mg/L
Total Iron	0.16	mg/L	02-26-09 1219	TW	3111B [1]	0.1	mg/L
Total Manganese	0.023	mg/L	02-26-09 1219	TW	3111B [1]	0.02	mg/L
Total Aluminum	0.16	mg/L	03-05-09 1750	TW	3111D [1]	0.1	mg/L
Total Suspended Solids	8.7	mg/L	02-18-09 1100	MM	2540D [2]	6.7	mg/L
Hardness (as $CaCO_3$)	20	mg/L	03-02-09 1000	KW	2340 C [1]	5	mg/L
Sulfate (as SO_4)	15	mg/L	02-23-09 1000	KW	D516-02 [4]	5	mg/L
Specific Conductance	72.2	µmhos/cm	02-13-09 1300	KW	120.1 [3]	10	µmhos/cm
Nitrate	0.22	mg/L	02-13-09 1110	LW/MM	352.1 [3]	0.1	mg/L

PQL: Practical Quantitation Limit
[1] Standard Methods, 18th Edition [2] Standard Methods, 20th Edition [3] US EPA [4] ASTM [5] EPA SW846

P-1159

TRADET LABORATORIES
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Wheeling, WV 26003-0219

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Wheeling, WV 26003

LABORATORY ANALYSES

American Energy Corporation
43521 Mayhugh Hill Rd. Twp Hwy 88
Beallsville, OH 43716
Attn: Mr. Fred Blumling

24-Nov-09

By: William Kroger
TraDet, Inc.

Company: American Energy Corporation
Source: D-2
SWL/Flow: 0.01 cfs
Analysis Number: 0911111

Sample Type: Pre-permit Century Productivity Area
Sampled By: QES (DR)
Date & Time Sampled: 11-09-09 1300
Date & Time Received: 11-10-09 1143

Field pH, S.U. 7.76

PARAMETER	CONCENTRATION		DATE & TIME ANALYZED	ANALYST	METHOD		PQL	
Total Acidity (as $CaCO_3$)	<5	mg/L	11-18-09 0911	WB	2310B (4)	[2]	5	mg/L
Total Alkalinity (as $CaCO_3$)	140	mg/L	11-17-09 0910	WB	2320B	[2]	5	mg/L
Total Iron	0.3	mg/L	11-21-09 1559	TW	3111B	[1]	0.1	mg/L
Total Manganese	0.02	mg/L	11-21-09 1559	TW	3111B	[1]	0.02	mg/L
Total Aluminum	0.3	mg/L	11-25-09 1725	TW	3111D	[1]	0.1	mg/L
Total Suspended Solids	<10	mg/L	11-12-09 1330	MM/TW	2540D	[2]	10	mg/L
Hardness (as $CaCO_3$)	300	mg/L	11-16-09 1100	TW	2340 C	[1]	5.0	mg/L
Sulfate (as SO_4)	28.5	mg/L	11-18-09 0830	LW	D516-02	[4]	5.0	mg/L
Specific Conductance	348	µmhos/cm	11-16-09 1120	LW	120.1	[3]	10.00	µmhos/cm
Nitrate	0.144[J]	mg/L	11-10-09 1430	LW	352.1	[3]	0.1	mg/L

MCL – Maximum Contaminant Level
MDL – Minimum Detection Limit
NA – Not Applicable
ND – Not Detected at PQL or MDL
PQL – Practical Quantitation Limit

J – Analyte detected below quantitation limits
B – Analyte detecte in associated Method Blank
E – Estimated Value above quantitation limits
H – Holding times for preparation or analysis exceeded
S – Spike recovery exceeds laboratory control limits

[1] – Standard Methods, 18th Edition
[2] – Standard Methods, 20th Edition
[3] – US EPA
[4] – ASTM
[5] – EPA SW846