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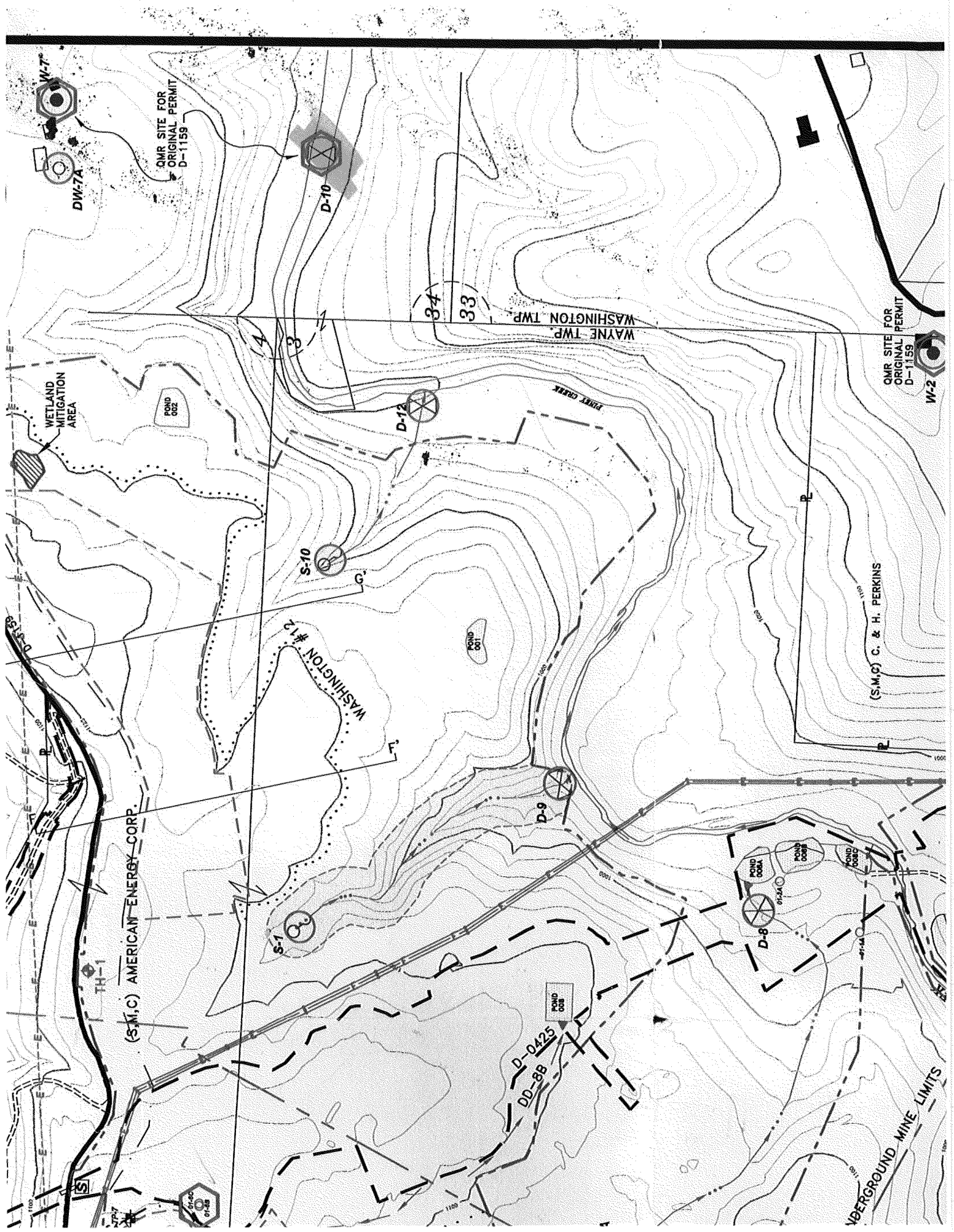

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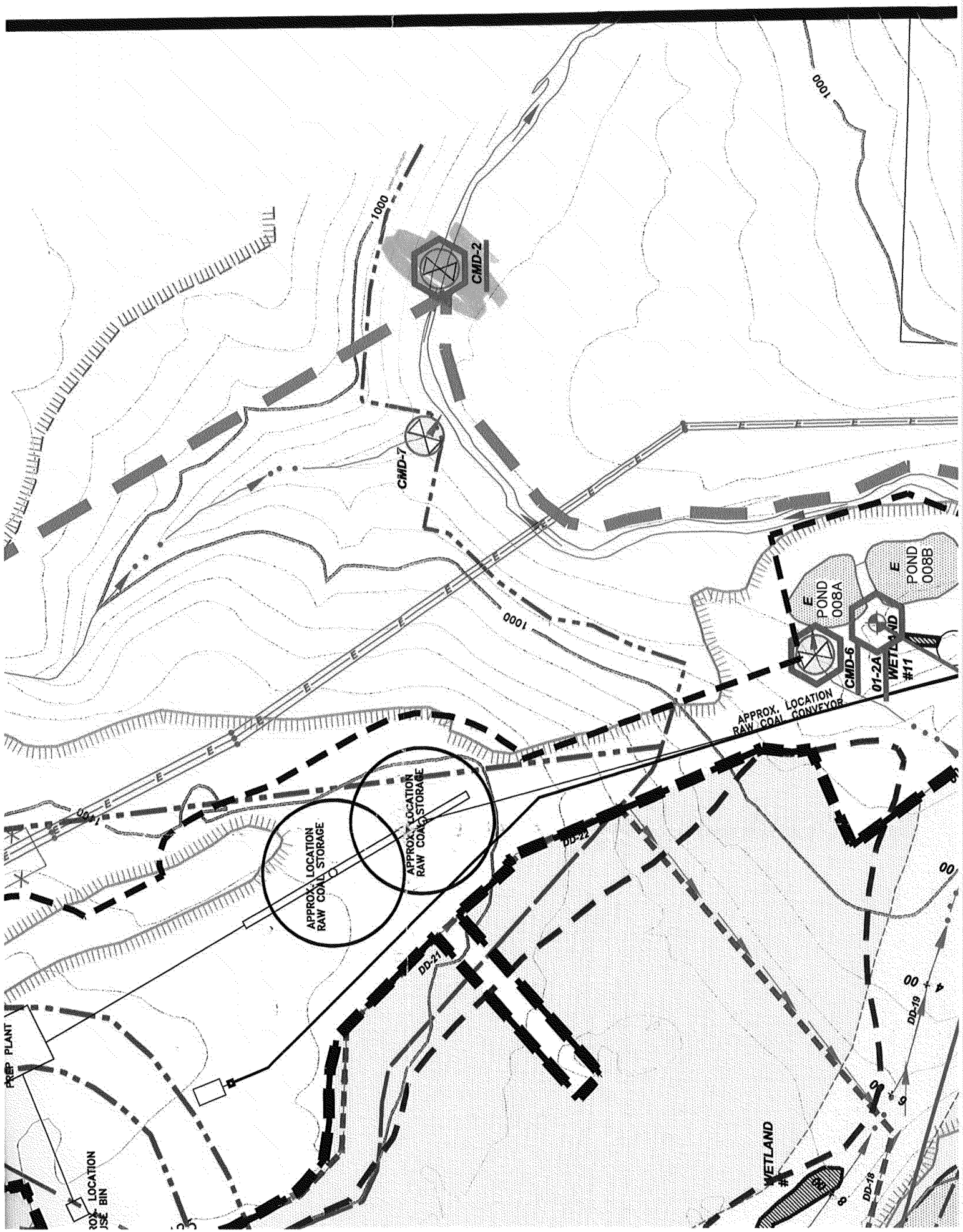

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OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT

Quarterly Monitoring Report Sheet
(Submit in Quadruplicate)

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DIVISION OF MINERAL RESOURCES
CAMBRIDGE

Permittee **American Energy Corp.**, Permit No. **D-0425** **Page 1 of 2**

☐ 1st Quarter, ☐ 2nd Quarter, ☐ 3rd Quarter, ☒ 4th Quarter ("X" appropriate box)

☐ Pre-mining, ☒ Mining, ☐ Postmining ("X" appropriate box for mine status)

Monitoring Site Identification No. (i.e., S-1, W-3)	D-8A	D-10	U-3	U-10	S-23
State Plane X-Y Coordinates	X 2,413,624 Y 695,395	X 2,417,484 Y 696,454	X 2,411,287 Y 693,468	X 2,413,435 Y 691,110	X 2,411,937 Y 696,728
State Whether Site was monitored for Quality, Quantity or Both	BOTH	BOTH	BOTH	BOTH	BOTH
Surface Elevation of Monitoring Site	1080	898	960	942	1125
Depth of Well Below Land Surface (feet)	--	--	--	--	--
Static Water Level of Well Below Land Surface (ft)	--	--	--	--	--
Stream or Spring Discharge (gpm)	1.2 CFS	33.3 CFS	6.9 CFS	12 CFS	60 GPM
Date Measured	12-10-12	12-10-12	12-10-12	12-10-12	12-10-12
pH (Standard Units)	7.92	7.45	7.41	7.59	7.89
Total Acidity (mg/l $CaCO_3$)	11.16	6.39	8.08	6.38	20.36
Total Alkalinity (mg/l $CaCO_3$)	171.70	79.08	64.24	54.11	402.44
Total Iron (mg/l)	1.09	0.89	0.63	0.78	2.38
Total Manganese (mg/l)	2.02	0.07	<0.03	0.07	1.93
Total Aluminum (mg/l)	0.21	0.91	0.82	0.84	0.50
Total Suspended Solids (mg/l)	23.0	26.0	19.0	22.0	21.0
Total Hardness (mg/l as $CaCO_3$)	831.0	107.0	77.0	67.0	651.0
Total Sulfates (mg/l)	1983.0	80.0	27.0	32.0	2049.0
Specific Conductance (at 25°C umhos/cm)	6880	352	171	163	7470
Other: **Lab Id**	12-12-407	12-12-406	12-12-403	12-12-408	12-12-405

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Permittee's Signature Ellen M. Green Date 1-8-13

Laboratory Name **INDUSTRIAL LAB ANALYSIS** COLUMBUS

Analyst's Signature [illegible] Date 01-03-13

Revised 04/06
DNR-744-9057