

**MINNEHAHA COUNTY OFFICE OF THE MEDICAL EXAMINER**

220 W. Sixth Street, Suite 140 | Sioux Falls, SD 57104 | (605) 367-4300

**TOXICOLOGY SUBMISSION FORM**

Case No. 2015-ME-0447 | MARSH, Eleanor Anne | DOB: 03/22/1969

**SECTION A – CASE AND SUBMISSION IDENTIFICATION**

ME Case #:	2015-ME-0447	Tox Lab Case # (assigned by lab):	2015-0447
Decedent Name:	MARSH, Eleanor Anne	DOB:	March 22, 1969
Sex:	Female	Age at Death:	46 years
Date of Death (est.):	October 13, 2015	Date of Autopsy:	October 14, 2015
Submitting ME / Pathologist:	Dr. Raymond G. Adeyemi, MD – Dept. of Health	Submitting ME / Pathologist:	Dr. Raymond G. Adeyemi, MD – Dept. of Health
Submitting Tech. / Staff:	H. Farr (MT-03) – Minnehaha County	Submitting Date/Time:	October 14, 2015 – 1402 hrs CDT
Receiving Lab:	Minnehaha County ME Toxicology Laboratory	Lab Location:	220 W. Sixth Street, Sioux Falls, SD 57104
LE Agency:	Sioux Falls Police Department	LE Case #:	SFPD-2015-48801
LE Contact (for results):	Marcus J. Orre – (605) 367-3304	ME Contact:	Dr. Adeyemi / S.L. Kowalczyk (M)

**SECTION B – SPECIMENS SUBMITTED**

Spec. #	Specimen Type	Quantity / Volume	Container / Preservation	Condition at Submission
SP-01	Peripheral blood – femoral (NaCl/KOx) Vacutainer	10 mL	Red-top Vacutainer	intact; labeled; no hemolysis noted
SP-02	Peripheral blood – femoral (EDTA) Purple-top Vacutainer	10 mL	Purple-top Vacutainer	intact; labeled
SP-04	Central blood – cardiac (NaCl/KOx) Vacutainer	10 mL	Red-top Vacutainer	intact; labeled; submitted for comparison
SP-05	Urine – bladder aspiration (Total Strain) collection jar	40 mL	Strain collection jar	intact; sealed; pale yellow, slightly cloudy
SP-06	Vitreous humor – right eye (NaCl/KOx) Vacutainer	2.5 mL	Gray-top Vacutainer	intact; clear vitreous; labeled
SP-08	Gastric contents – total aspiration (wide-mouth specimen jar)	20 mL	Wide-mouth specimen jar	intact; sealed; tan-brown semi-liquid; labeled
SP-09	Liver – unfixed tissue (right lobe) (wide-mouth specimen jar)	50 g	Wide-mouth specimen jar	intact; refrigerated; sealed
SP-12	Scalp hair – root-intact (30 strands) (paper, coin, envelope)	30 strands	Paper, coin, envelope	intact; dry; labeled; roots attached

**SECTION C – ANALYSES REQUESTED**

Analysis Category	Specimens	Priority	Notes / Specific Requests
Volatile compounds / ES/Al (blood); SP-06	SP-01 (blood); SP-06 (vitreous)	RUSH	Report vitreous EtOH separately as requested
Comprehensive drug screen	SP-01 (blood)	RUSH	Standard screen including opiates, benzodiazepines, stimulants
Confirmation and quantitation of positive screens	SP-01 (blood)	RUSH	Standard confirmation and quantitation of all positive screens
Comprehensive therapeutic drug panel	SP-01 (blood)	RUSH	Standard panel including cardiac drugs (digoxin, beta-blockers, CCBs, antiarrhythmics)
Heavy metals / Trace elements (blood); SP-07	SP-01 (blood)	Standard	Standard panel including Arsenic, mercury, lead, thallium, cyanide (blood only)
Carbon monoxide / Carboxyhemoglobin	SP-01 (blood)	RUSH	CO-Hgb saturation (% saturation); correlate with scene investigation
Cyanide (blood)	SP-01 (blood – residual)	Standard	Standard panel; CO result is unremarkable; cyanide as general toxicology

Analysis Category	Specimens	Priority	Notes / Specific Requests
Electrolytes / Vitreous	SP-16 (vitreous panel)	Standard	Na, K, Cl, glucose, BUN, creatinine; vitreous chemist
Drugs of abuse - hair	SP-12 (hair - segmental)	Standard	Segmental analysis of scalp hair for chronic drug use
Unknown compound ident	SP-02 (gastric str)	Standard	(Liver) qualitative scan for unknown compounds; priorit

**SECTION D - CASE CONTEXT FOR LABORATORY (NOT FOR PUBLIC DISCLOSURE)**

The decedent is a 46-year-old white female found deceased in her private office at a multi-story commercial building in Sioux Falls, South Dakota, after normal business hours. She was discovered by building janitorial staff and was found seated at her desk in a manner consistent with having become incapacitated while working. No witnesses to the event of loss of consciousness or collapse have been identified. No prescription medications were found at the scene and no treating physician has been identified at the time of this submission. The decedent's medical history is entirely unknown at this time.

The autopsy examination revealed no definitive anatomic cause of death on gross examination. Mild coronary atherosclerosis (estimated 30-40% LAD narrowing) was identified, with no gross evidence of acute plaque rupture or thrombosis. No acute intracranial pathology, no petechiae identified grossly, no neck hemorrhage, and no obvious acute trauma were found. A staining on the left interior cuff of the decedent's blouse was collected separately and submitted to SFPD CSU for characterization; the nature of this substance is unknown. The possibility of an exogenous toxic substance playing a role in this death cannot be excluded and is considered a priority question for the toxicologic examination. The submitting pathologist requests that the laboratory contact Dr. Adeyemi at (605) 367-4300 immediately upon any positive identification of a potentially toxic or controlled substance at any concentration level, prior to issuance of the formal written report.

Submitted By (signature):	Print Name:	Dennis H. Farr - MT	Date:	10/14/2015	Time:	1402 hrs
Pathologist Authorization:	Print Name:	Dr. R.G. Adeyemi, MD	Date:	10/14/2015	Time:	~1345 hrs
Received By (Tox Lab):	Print Name:		Date:		Time:	