



**DEPARTMENT OF THE NAVY**

CRANE DIVISION  
NAVAL SURFACE WARFARE CENTER  
300 HIGHWAY 381  
CRANE, INDIANA 47522-5000

IN REPLY REFER TO:

5090  
Ser 095/0179  
23 AUG 2008

U.S. Environmental Protection Agency, Region V  
Waste, Pesticides, & Toxics Division  
Waste Management Branch  
Illinois, Indiana, and Michigan Section  
ATTN: Mr. Peter Ramanauskas (DW-8J)  
77 West Jackson Blvd.  
Chicago, IL 60604

Dear Mr. Ramanauskas:

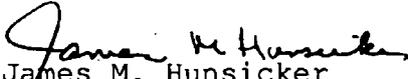
Crane Division, Naval Surface Warfare Center (NAVSURFWARCENDIV Crane) requests a change to Table 1-3 on page 2 of 7 of the Quality Assurance Project Plan (QAPP) for ground water monitoring at the Subpart X units. Currently the "Additional Metals" section of Table 1-3 lists SW-846 Method 6010B ICP/AES only. Current technology for the new ICP/MS instruments (Method 6020), which Laucks now owns, has improved the dynamic range for the following metals (Ca, Mg, Na, K, Fe, and Mn). During QAPP development, the dynamic range was narrower for the then available ICP/MS instruments. For that reason, when Laucks provided input on the QAPP they suggested ICP/AES (Method 6010B) to avoid the potential for numerous dilutions of the samples in spite of the additional digestion required. The scope at Crane consistently requires Appendix IX metals, however the additional metals are not always inclusively required. Therefore, currently an extra digestion is required for the one or two additional metals requested that could be validly reported by the digestion already performed for the Appendix IX metals by Method 6020.

Three copies of the revised Table 1-3, page 2 of 7 stating "SW-846 Method 6010B ICP/AES or SW-846 Method 6020 ICP/MS" are included as enclosure (1). The permit required Certification Statement is provided as enclosure (2).

NAVSURFWARCENDIV Crane point of contact is Mr. Thomas J. Brent, Code 09510, telephone 812-854-6160.

5090  
Ser 095/0179

Sincerely,

  
James M. Hunsicker  
Director, Environmental  
Protection Department  
By direction of the Commander

Encl:  
(1) Table 1-3, Page 2 of 7, Revision 4  
(2) Certification Statement

Copy to:  
ADMINISTRATIVE RECORD  
IDEM (Doug Griffin)  
TTNUS (Ralph Basinski)  
SAIC (Steve Mehay)  
LAUCKS (Hugh Prentice)

**TABLE 1-3  
PAGE 2 OF 7  
REVISION 4**

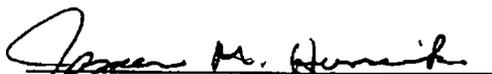
**Enclosure (1)**

TABLE 1-3

ANALYTICAL METHODS AND LIMITS OF DETECTION  
 NAVAL SURFACE WARFARE CENTER  
 CRANE, INDIANA  
 PAGE 2 OF 7

Chemical	Laboratory MDL/IDL <sup>(1)</sup> (ug/L)	Laboratory RL <sup>(1)</sup> (ug/L)	Risk-Based Target Level <sup>(2)</sup> (ug/L)
<b>ADDITIONAL METALS (SW-846 METHOD 6010B ICP/AES OR SW-846 METHOD 6020 ICP/MS)</b>			
Calcium	112	1000	--
Iron	16	100	300
Magnesium	33	1000	--
Manganese	1.5	15	50
Potassium	147	1000	--
Sodium	28	1000	--
<b>APPENDIX IX VOLATILE ORGANIC COMPOUNDS (SW-846 METHOD 8260B WITH 25 ML PURGE)</b>			
1,1,1-Trichloroethane	0.17	0.5	88
1,1,1,2-Tetrachloroethane	0.13	0.5	5
1,1,2,2-Tetrachloroethane	0.10	0.5	5
1,1,2-Trichloroethane	0.14	0.5	5
1,2,3-Trichloropropane	0.54	1 <sup>(4)</sup>	12.11
1,2,3-Trichlorobenzene	0.08	0.5	--
1,1-Dichloroethane	0.17	0.5	47
1,1-Dichloroethene	0.12	0.5	0.5
1,1-Dichloropropylene	0.15	0.5	--
1,2-Dibromo-3-chloropropane	0.30	1	1
1,2-Dibromoethane	0.13	0.5	1
1,2-Dichloroethane	0.14	0.5	1
1,2-Dichloropropane	0.14	0.5	380
1,3-Dichloropropane	0.15	0.5	--
2,2-Dichloropropane	0.18	0.5	--
2-Butanone	0.86	10	917.72
2-Chloro-1,3-butadiene (chloroprene)	0.40	3	14
2-Hexanone	0.92	10	--
4-Methyl-2-pentanone	0.52	10	1520
Acetone	1.8	10	610
Acrolein	4.6	10*	4
Acrylonitrile	1.3	3	3.7
Allyl chloride (3-chloro-1-propene)	0.22	10	1800
Benzene	0.013	0.5	5
Bromochloromethane	0.18	0.5	--
Bromodichloromethane	0.13	0.5	100
Bromoform	0.18	0.5	8.5
Bromomethane	0.59	1 <sup>(4)</sup>	8.7
Carbon disulfide	0.13	0.5	21
Carbon tetrachloride	0.17	0.3 <sup>(4)</sup>	0.17
Chlorobenzene	0.18	0.5	10
Chloroethane	0.21	0.5	710
Chloroform	0.14	0.3*	0.16
Chloromethane	0.17	0.5	1.5
cis-1,2-Dichloroethene	0.10	0.5	61
cis-1,3-Dichloropropene	0.16	0.3 <sup>(4)</sup>	0.081
Dibromochloromethane	0.10	0.5	1
Dibromomethane	0.19	0.5	370
Dichlorodifluoromethane	0.18	0.5	390
Ethylbenzene	0.076	0.5	17.2

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
SIGNATURE

Environmental Protection Department Manager  
TITLE

9/22/00  
DATE