WEEKLY PROGRESS UPDATE
FOR AUGUST 23-AUGUST 27, 1999

EPA REGION I ADMINISTRATIVE ORDER SDWA I-97-1019
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period for August 23 to August 27, 1999.

1. SUMMARY OF ACTIONS TAKEN

Drilling was completed on MW-83 and MW-82 (Bourne water supply far field monitoring wells) and achieved a total depth of 195 feet and 175 feet below ground surface (bgs). Monitoring wells were completed in MW-83 at depths of 33' to 43' bgs, 60' to 70' bgs, and 85' to 95' bgs at this location and monitoring wells were completed in MW-82 at depths of 25' to 35' bgs and 78' to 88' bgs. Drilling commenced on MW-84 (Bourne water supply far field monitoring well), MW-82M (second boring), and MW-62 (U Range well), which achieved total depths of 214', 195' and 70' bgs respectively at the end of the week. Samples collected during the reporting period are summarized in Table 1. A drinking water sample was collected from the USCG Antenna Station supply well. Groundwater sampling was completed for round 2 of the Phase IIa monitoring wells. Groundwater sampling was initiated for round 2 of the far field monitoring wells. Groundwater profile samples were collected from MW-82, MW83, MW-84, and MW-62.

The Guard, EPA, and MADEP had a meeting on August 26 to discuss technical issues, including the following:

- Tetra Tech updated on the munitions survey which included discussions of logistical issues with cost estimating, access to former H Range, extent of survey at the former F Range, number of water bodies to investigate, and trench along Turpentine Road.

- Selection of screen depths for MW-81 deep wells. The remaining profile data and boring log was faxed on 8/25. EPA and DEP agreed to set the two remaining screens at 100' to 110' below the water table (bwt) and 185' to 195' bwt. A 1-page handout of a draft cross section of the Bourne far field wells was distributed.

- A 2-page letter proposing the far field monitoring location for the Sandwich water supply wells was distributed for EPA and DEP review. USGS has been requested to prepare a cross-section of the deepest ZOC for the Sandwich wells. EPA requested that the Guard check into the reason for the apparent extra ZOC in the proposal as compared to the Earth Tech ZOC map.

- The J Well far field well location proposal was discussed. A preliminary figure showing the vertical ZOC for the J Well was reviewed. Ogden needs to add scales, add the screened interval, correct the missing portion at the bottom, add the proposed far field monitoring location, and add base boundaries for next weeks tech meeting. The figure showing the cross section of the J Well, which Ogden adapted from a JEG figure, may need to have screen depths corrected (distributed on 8/19/99). EPA requested that Ogden update this figure for next week's tech meeting.

- A handout was provided summarizing the reconnaissance of the remaining locations identified in the Archive Search Report (bunkers, mortar targets, and buildings). EPA asked that the building foundations on Pew Road be included in the reconnaissance. Ogden will prepare a work plan and field sampling plan for EPA review at the beginning of October.

- The schedule for the J Range Workplan was discussed. This schedule will be provided to EPA within 14 days as requested. The Guard will prepare a separate workplan for the J-2 Range and would like to wait until data is received from Textron before completing the workplan for the J-1 and J-3 Ranges. EPA requested that the guard provide a schedule for the latter workplan as much as possible considering the interaction with Textron.

- U Range unsaturated soil sampling was discussed. Currently the soil samples are on hold because the U-Range is outside the Impact Area and soil sampling is not required. Guard would like to eliminate soil sampling on locations outside the Impact Area. EPA requested that the first four samples (0-0.5, 1.5-2, 10-12, and 20-22 ft bgs) be submitted for explosives and any interval with a PID detection gets the full suite of analyses. The EPA asked for an update on the location of the U Range monitoring well with respect to the targets. There was confusion on a request to relocate the well from the proposed location in the work plan. Ogden will prepare a sketch of the location of the well and the targets.

- A map of MW-26/59 proposed soil sampling locations was distributed for EPA and DEP review. EPA requested that the particle tracks be re-run using the subregional model and that a reconnaissance of the area be performed. Ogden also needs to confirm that the correct particle track was used on the figure, since it appears to be shorter than the figure provided in March 1999 (showing historic photos).

- A handout of the results of the soil and air monitoring for the UXO detonations was distributed. The Guard proposes to continue with this sampling on any other UXO detonations.

- The EPA asked if the VOC profile data from MW-63b had been reviewed. Ogden indicated that this was done at a previous Tech Meeting and that the VOC detections were covered by the screened intervals that were selected.

- EPA requested an update on the UXO at the steel-sided pit. The Guard indicated that a total of ten 81mm mortars have been located. EOD have looked at eight and determined that two are not fuzed and can be moved and the other six have fuzes and their disposal is being evaluated. The Guard is trying to get EOD to look at the other two rounds and to schedule their disposal. The six UXO at the APC have been classified for blow in place disposal.

- A handout of the results of the Grand Oaks soil samples collected by Ogden was distributed.

- EPA requested the status of the TIC results for the KD Range soil samples. Ogden indicated that they would be provided in the report.

- EPA requested the status of the alternative drilling methods. Ogden indicated that most of the subcontractors were not interested in the demonstration. DL Maher and Boart Longyear are currently developing an alternative method of drilling.

- EPA requested that the validated and unvalidated data for groundwater and profile samples would be provided in the Interim Results Report.

2. SUMMARY OF DATA RECEIVED

Preliminary non-validated detections of explosive and volatile organic compounds (VOCs) are summarized in Table 2 for samples collected during the preceding four-week period. The status of the

explosive detections with respect to confirmation using Photo Diode Array (PDA) spectra is also indicated in this table. Where the PDA status is "YES" in Table 2, the detected compound has been confirmed to be present in the sample. Where the status is "NO", the identification of an explosive has been confirmed to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC.

Some of the detections in Table 2 were discussed in last week's progress report. The range of sample dates included in Table 2 overlaps from week-to-week due to the method of reporting and extracting these data. New detections in Table 2 that were not discussed in last week's report include:

- Two field Quality Control (QC) samples from groundwater profiling at boring MW-83 had acetone and MEK detected.

- Ground water samples from Round 2 at MW-43M2 had a detection of RDX that was confirmed by PDA spectra. RDX was also detected at this location in Round 1.

- The ground water sample from MW-45S had detections of 3-nitrotoluene, 4-nitrotoluene, nitroglycerin, PETN, and picric acid. None of these detections were confirmed with the PDA spectra. This location did not have confirmed explosive detections in Round 1.

- Chloroform was detected in profile samples from MW-81, -82, and –84. Acetone was also detected from one profile sample in MW-84.

- Profile samples from MW-83 had detections of chloroform (2 intervals), picric acid (2 intervals), and 3-nitrotoluene (1 interval). None of the explosive detections were confirmed with the PDA spectra.

PDA spectra from explosive detections reported previously did not confirm the compounds identified in the 3 UXO detonation air samples, the QC sample from the UXO detonation, and the 5 profile samples from MW-61.

3. DELIVERABLES SUBMITTED

Weekly Progress Update for August 2 – August 6, 1999	August 25, 1999
Weekly Progress Update for August 9 – August 13, 1999	August 25, 1999
Weekly Progress Update for August 16 – August 20, 1999	August 25, 1999

4. SCHEDULED ACTIONS

Scheduled actions for the week of August 30 include completion of drilling at MW-84 (Bourne far field well), MW-62 (U Range well) and MW-81b (Bourne far field well); commence drilling of MW-64 (GP-6 well), MW-83b (Bourne far field well), MW-66 (GP-16 well) and MW-68 (MP-1 well); development of newly installed wells; and continued ground water sampling of round 2 of the far field monitoring wells.

TABLE 1
SAMPLING PROGRESS
8/23-8/27

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G82DLE	FIELDQC	8/23/1999	FIELDQC	0.00	0.00		
G82DOT	FIELDQC	8/24/1999	FIELDQC	0.00	0.00		
G83DOT	FIELDQC	8/23/1999	FIELDQC	0.00	0.00		
G84DAE	FIELDQC	8/25/1999	FIELDQC	0.00	0.00		
G84DAT	FIELDQC	8/25/1999	FIELDQC	0.00	0.00		
G84DFE	FIELDQC	8/26/1999	FIELDQC	0.00	0.00		
G84DFT	FIELDQC	8/26/1999	FIELDQC	0.00	0.00		
G84DME	FIELDQC	8/27/1999	FIELDQC	0.00	0.00		
G84DMT	FIELDQC	8/27/1999	FIELDQC	0.00	0.00		
S82DEE	FIELDQC	8/27/1999	FIELDQC	0.00	0.00		
W41M3A	MW-41	8/23/1999	GROUNDWATER			0.00	10.00
W42M2A	MW-42	8/23/1999	GROUNDWATER			119.00	129.00
W42M3A	MW-42	8/23/1999	GROUNDWATER			99.00	109.00
W43M1A	MW-43	8/23/1999	GROUNDWATER			93.00	103.00
W43M2A	MW-43	8/23/1999	GROUNDWATER			70.00	80.00
W43SSA	MW-43	8/24/1999	GROUNDWATER			0.00	10.00
W45M1A	MW-45	8/23/1999	GROUNDWATER			98.00	108.00
W45M2A	MW-45	8/24/1999	GROUNDWATER			18.00	28.00
W45SSA	MW-45	8/23/1999	GROUNDWATER			0.00	10.00
W46DDA	MW-46	8/24/1999	GROUNDWATER			135.00	145.00
W46M1A	MW-46	8/24/1999	GROUNDWATER			102.00	112.00
W46M2A	MW-46	8/24/1999	GROUNDWATER			55.00	65.00
W46M3A	MW-46	8/23/1999	GROUNDWATER			22.00	32.00
W46M3D	MW-46	8/23/1999	GROUNDWATER			22.00	32.00
W46SSA	MW-46	8/25/1999	GROUNDWATER			22.00	32.00
W47DDA	MW-47	8/24/1999	GROUNDWATER			100.00	110.00
W47M1A	MW-47	8/24/1999	GROUNDWATER			75.00	85.00
W47M2A	MW-47	8/25/1999	GROUNDWATER			38.00	48.00
W47M3A	MW-47	8/25/1999	GROUNDWATER			21.00	31.00
W47SSA	MW-47	8/25/1999	GROUNDWATER			0.00	10.00
W50DDA	MW-50	8/24/1999	GROUNDWATER			120.50	130.50
W50M1A	MW-50	8/24/1999	GROUNDWATER			90.00	100.00
W50M2A	MW-50	8/25/1999	GROUNDWATER			59.00	69.00
W50M3A	MW-50	8/25/1999	GROUNDWATER			29.00	39.00
W50M3D	MW-50	8/25/1999	GROUNDWATER			29.00	39.00
W51DDA	MW-51	8/26/1999	GROUNDWATER			130.00	140.00
W51DDD	MW-51	8/26/1999	GROUNDWATER			130.00	140.00
W51M1A	MW-51	8/26/1999	GROUNDWATER			90.00	100.00
W51M2A	MW-51	8/25/1999	GROUNDWATER			60.50	70.50
W51M3A	MW-51	8/25/1999	GROUNDWATER			29.00	39.00
W51SSA	MW-51	8/26/1999	GROUNDWATER			0.00	10.00
W52M1A	MW-52	8/26/1999	GROUNDWATER			139.00	149.00
W52M2A	MW-52	8/26/1999	GROUNDWATER			74.00	84.00
W52M3A	MW-52	8/27/1999	GROUNDWATER			26.00	36.00
W52SSA	MW-52	8/26/1999	GROUNDWATER			0.00	10.00
W53SSA	MW-53	8/26/1999	GROUNDWATER			0.00	10.00
W53SSA	MW-53	8/27/1999	GROUNDWATER			0.00	10.00
W54M2A	MW-54	8/27/1999	GROUNDWATER			58.00	68.00

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 1
SAMPLING PROGRESS
8/15-8/21

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W54SSA	MW-54	8/27/1999	GROUNDWATER			0.00	10.00
DW8223	GAC WATER	8/23/1999	IDW	0.00	0.00		
DW8426	GAC WATER	8/26/1999	IDW	0.00	0.00		
DW8427	GAC WATER	8/27/1999	IDW	0.00	0.00		
DW8425	GAC WATER	8/25/1999	OTHER	0.00	0.00		
G82DLA	MW-82	8/23/1999	PROFILE	140.00	145.00	110.90	115.90
G82DMA	MW-82	8/23/1999	PROFILE	150.00	155.00	120.90	125.90
G82DNA	MW-82	8/23/1999	PROFILE	160.00	165.00	130.90	135.90
G82DND	MW-82	8/23/1999	PROFILE	160.00	165.00	130.90	135.90
G82DOA	MW-82	8/24/1999	PROFILE	170.00	175.00	140.90	145.90
G83DOA	MW-83	8/23/1999	PROFILE	180.00	185.00	143.00	148.00
G83DPA	MW-83	8/23/1999	PROFILE	190.00	195.00	153.00	158.00
G84DAA	MW-84	8/25/1999	PROFILE	40.00	45.00	1.15	6.15
G84DBA	MW-84	8/25/1999	PROFILE	50.00	55.00	11.15	16.15
G84DBD	MW-84	8/25/1999	PROFILE	50.00	55.00	11.15	16.15
G84DCA	MW-84	8/25/1999	PROFILE	60.00	65.00	21.15	26.15
G84DDA	MW-84	8/25/1999	PROFILE	70.00	75.00	31.15	36.15
G84DEA	MW-84	8/25/1999	PROFILE	80.00	85.00	41.15	46.15
G84DFA	MW-84	8/25/1999	PROFILE	90.00	95.00	51.15	56.15
G84DGA	MW-84	8/26/1999	PROFILE	100.00	105.00	61.15	66.15
G84DHA	MW-84	8/26/1999	PROFILE	110.00	115.00	71.15	76.15
G84DIA	MW-84	8/26/1999	PROFILE	120.00	125.00	81.15	86.15
G84DID	MW-84	8/26/1999	PROFILE	120.00	125.00	81.15	86.15
G84DJA	MW-84	8/26/1999	PROFILE	130.00	135.00	91.15	96.15
G84DKA	MW-84	8/26/1999	PROFILE	140.00	145.00	101.15	106.15
G84DLA	MW-84	8/26/1999	PROFILE	150.00	155.00	111.15	116.15
G84DMA	MW-84	8/27/1999	PROFILE	160.00	165.00	121.15	126.15
G84DNA	MW-84	8/27/1999	PROFILE	170.00	175.00	131.15	136.15
G84DOA	MW-84	8/27/1999	PROFILE	180.00	185.00	141.15	146.15
G84DPA	MW-84	8/27/1999	PROFILE	190.00	195.00	151.15	156.15
G84DQA	MW-84	8/27/1999	PROFILE	200.00	205.00	161.15	166.15
S62DBA	MW-62	8/26/1999	SOIL BORING	10.00	12.00		
S62DCA	MW-62	8/26/1999	SOIL BORING	20.00	22.00		
S62DDA	MW-62	8/26/1999	SOIL BORING	30.00	32.00		
S62DEA	MW-62	8/27/1999	SOIL BORING	40.00	42.00		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 8/1/99-8/28/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
AS37/40	AS37/40	8/3/1999	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
AS37/40	AS37/40	8/3/1999	AIR	0.00	0.00			8330N	PENTAERYTHRITOL TETRANITR	NO
AS37/40	AS37/40	8/3/1999	AIR	0.00	0.00			8330N	TETRYL	NO
ASAVERYRD	ASAVERYRD	8/3/1999	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
ASAVERYRD	ASAVERYRD	8/3/1999	AIR	0.00	0.00			8330N	PENTAERYTHRITOL TETRANITR	NO
ASAVERYRD	ASAVERYRD	8/3/1999	AIR	0.00	0.00			8330N	TETRYL	NO
ASJ1RANGE	ASJ1RANGE	8/3/1999	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
ASJ1RANGE	ASJ1RANGE	8/3/1999	AIR	0.00	0.00			8330N	PENTAERYTHRITOL TETRANITR	NO
ASJ1RANGE	ASJ1RANGE	8/3/1999	AIR	0.00	0.00			8330N	TETRYL	NO
PUFBLK	PUFLCSD	8/3/1999	AIR	0.00	0.00			8330N	2,6-DINITROTOLUENE	NO
PUFBLK	PUFLCSD	8/3/1999	AIR	0.00	0.00			8330N	PENTAERYTHRITOL TETRANITR	NO
PUFBLK	PUFLCSD	8/3/1999	AIR	0.00	0.00			8330N	TETRYL	NO
G81DSE	FIELDQC	8/16/1999	FIELDQC	0.00	0.00			OC21V	ACETONE	
G81DSE	FIELDQC	8/16/1999	FIELDQC	0.00	0.00			OC21V	METHYL ETHYL KETONE (2-BUT	
G83DAE	FIELDQC	8/18/1999	FIELDQC	0.00	0.00			OC21V	ACETONE	
G83DAE	FIELDQC	8/18/1999	FIELDQC	0.00	0.00			OC21V	METHYL ETHYL KETONE (2-BUT	
HD105MMTRMW37E	FIELDQC	8/6/1999	FIELDQC	0.00	0.00			8330N	NITROGLYCERIN	NO
W34M1A	MW-34	8/16/1999	GROUNDWATER			75.00	85.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W34M2A	MW-34	8/16/1999	GROUNDWATER			55.00	65.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W38M3A	MW-38	8/18/1999	GROUNDWATER			53.00	63.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W38M4A	MW-38	8/18/1999	GROUNDWATER			15.00	25.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W39M2A	MW-39	8/18/1999	GROUNDWATER			42.00	52.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
W43M2A	MW-43	8/23/1999	GROUNDWATER			70.00	80.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W45SSA	MW-45	8/23/1999	GROUNDWATER			0.00	10.00	8330N	3-NITROTOLUENE	NO
W45SSA	MW-45	8/23/1999	GROUNDWATER			0.00	10.00	8330N	4-NITROTOLUENE	NO
W45SSA	MW-45	8/23/1999	GROUNDWATER			0.00	10.00	8330N	NITROGLYCERIN	NO
W45SSA	MW-45	8/23/1999	GROUNDWATER			0.00	10.00	8330N	PENTAERYTHRITOL TETRANITR	NO
W45SSA	MW-45	8/23/1999	GROUNDWATER			0.00	10.00	8330N	PICRIC ACID	NO
G61MHA	MW-61	8/2/1999	PROFILE	170.00	170.00	70.20	70.20	8330N	3-NITROTOLUENE	NO
G61MHA	MW-61	8/2/1999	PROFILE	170.00	170.00	70.20	70.20	8330N	4-NITROTOLUENE	NO
G61MHA	MW-61	8/2/1999	PROFILE	170.00	170.00	70.20	70.20	OC21V	2-HEXANONE	
G61MHA	MW-61	8/2/1999	PROFILE	170.00	170.00	70.20	70.20	OC21V	ACETONE	
G61MHA	MW-61	8/2/1999	PROFILE	170.00	170.00	70.20	70.20	OC21V	CHLOROFORM	

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 8/1/99-8/28/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G61MHA	MW-61	8/2/1999	PROFILE	170.00	170.00	70.20	70.20	OC21V	CHLOROMETHANE	
G61MHA	MW-61	8/2/1999	PROFILE	170.00	170.00	70.20	70.20	OC21V	METHYL ETHYL KETONE (2-BUT	
G61MIA	MW-61	8/2/1999	PROFILE	180.00	180.00	80.20	80.20	8330N	3-NITROTOLUENE	NO
G61MIA	MW-61	8/2/1999	PROFILE	180.00	180.00	80.20	80.20	8330N	4-NITROTOLUENE	NO
G61MIA	MW-61	8/2/1999	PROFILE	180.00	180.00	80.20	80.20	8330N	NITROGLYCERIN	NO
G61MIA	MW-61	8/2/1999	PROFILE	180.00	180.00	80.20	80.20	OC21V	ACETONE	
G61MIA	MW-61	8/2/1999	PROFILE	180.00	180.00	80.20	80.20	OC21V	CHLOROFORM	
G61MIA	MW-61	8/2/1999	PROFILE	180.00	180.00	80.20	80.20	OC21V	METHYL ETHYL KETONE (2-BUT	
G61MJA	MW-61	8/2/1999	PROFILE	190.00	190.00	90.20	90.20	8330N	NITROGLYCERIN	NO
G61MJA	MW-61	8/2/1999	PROFILE	190.00	190.00	90.20	90.20	OC21V	ACETONE	
G61MJA	MW-61	8/2/1999	PROFILE	190.00	190.00	90.20	90.20	OC21V	CHLOROFORM	
G61MKA	MW-61	8/2/1999	PROFILE	200.00	200.00	100.20	100.20	8330N	NITROGLYCERIN	NO
G61MKA	MW-61	8/2/1999	PROFILE	200.00	200.00	100.20	100.20	OC21V	ACETONE	
G61MKA	MW-61	8/2/1999	PROFILE	200.00	200.00	100.20	100.20	OC21V	CHLOROFORM	
G80DMA	MW-80	8/3/1999	PROFILE	160.00	165.00	114.40	119.40	OC21V	TOLUENE	
G80DPA	MW-80	8/3/1999	PROFILE	190.00	195.00	144.40	149.40	OC21V	TOLUENE	
G80DPD	MW-80	8/3/1999	PROFILE	190.00	195.00	144.40	149.40	OC21V	TOLUENE	
G80DRA	MW-80	8/4/1999	PROFILE	210.00	215.00	164.40	169.40	8330N	NITROGLYCERIN	NO
G80DRA	MW-80	8/4/1999	PROFILE	210.00	215.00	164.40	169.40	8330N	PICRIC ACID	NO
G80DRA	MW-80	8/4/1999	PROFILE	210.00	215.00	164.40	169.40	OC21V	TOLUENE	
G81DAA	MW-81	8/11/1999	PROFILE	30.00	35.00	1.50	6.50	OC21V	ACETONE	
G81DAA	MW-81	8/11/1999	PROFILE	30.00	35.00	1.50	6.50	OC21V	CHLOROFORM	
G81DBA	MW-81	8/11/1999	PROFILE	40.00	45.00	11.50	16.50	OC21V	CHLOROFORM	
G81DCA	MW-81	8/12/1999	PROFILE	50.00	55.00	21.50	26.50	OC21V	CHLOROFORM	
G81DCD	MW-81	8/12/1999	PROFILE	50.00	55.00	21.50	26.50	OC21V	CHLOROFORM	
G81DDA	MW-81	8/12/1999	PROFILE	60.00	65.00	31.50	36.50	OC21V	CHLOROFORM	
G81DEA	MW-81	8/12/1999	PROFILE	70.00	75.00	41.50	46.50	OC21V	CHLOROFORM	
G81DFA	MW-81	8/12/1999	PROFILE	80.00	85.00	51.50	56.50	OC21V	CHLOROFORM	
G81DGA	MW-81	8/12/1999	PROFILE	90.00	95.00	61.50	66.50	OC21V	CHLOROFORM	
G81DHA	MW-81	8/12/1999	PROFILE	100.00	105.00	71.50	76.50	OC21V	CHLOROFORM	
G81DIA	MW-81	8/12/1999	PROFILE	110.00	115.00	81.50	86.50	OC21V	CARBON DISULFIDE	
G81DIA	MW-81	8/12/1999	PROFILE	110.00	115.00	81.50	86.50	OC21V	TOLUENE	
G81DJA	MW-81	8/12/1999	PROFILE	120.00	125.00	91.50	96.50	OC21V	ACETONE	

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TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 8/1/99-8/28/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G81DJA	MW-81	8/12/1999	PROFILE	120.00	125.00	91.50	96.50	OC21V	CHLOROFORM	
G81DKA	MW-81	8/12/1999	PROFILE	130.00	135.00	101.50	106.50	OC21V	CHLOROFORM	
G81DKA	MW-81	8/12/1999	PROFILE	130.00	135.00	101.50	106.50	OC21V	TOLUENE	
G81DLA	MW-81	8/13/1999	PROFILE	140.00	145.00	111.50	116.50	OC21V	CHLOROFORM	
G81DLA	MW-81	8/13/1999	PROFILE	140.00	145.00	111.50	116.50	OC21V	TOLUENE	
G81DMA	MW-81	8/13/1999	PROFILE	150.00	155.00	121.50	126.50	OC21V	ACETONE	
G81DMA	MW-81	8/13/1999	PROFILE	150.00	155.00	121.50	126.50	OC21V	CHLOROFORM	
G81DMA	MW-81	8/13/1999	PROFILE	150.00	155.00	121.50	126.50	OC21V	TOLUENE	
G81DNA	MW-81	8/13/1999	PROFILE	160.00	165.00	131.50	136.50	OC21V	CHLOROFORM	
G81DNA	MW-81	8/13/1999	PROFILE	160.00	165.00	131.50	136.50	OC21V	TOLUENE	
G81DND	MW-81	8/13/1999	PROFILE	160.00	165.00	131.50	136.50	OC21V	CHLOROFORM	
G81DOA	MW-81	8/13/1999	PROFILE	170.00	175.00	141.50	146.50	OC21V	CHLOROFORM	
G81DOA	MW-81	8/13/1999	PROFILE	170.00	175.00	141.50	146.50	OC21V	TOLUENE	
G81DPA	MW-81	8/16/1999	PROFILE	180.00	185.00	151.50	156.50	OC21V	CHLOROFORM	
G81DQA	MW-81	8/16/1999	PROFILE	190.00	195.00	161.50	166.50	OC21V	CHLOROFORM	
G81DRA	MW-81	8/16/1999	PROFILE	200.00	205.00	171.50	176.50	OC21V	CHLOROFORM	
G81DSA	MW-81	8/16/1999	PROFILE	210.00	215.00	181.50	186.50	OC21V	CHLOROFORM	
G81DTA	MW-81	8/16/1999	PROFILE	220.00	225.00	191.50	196.50	OC21V	CHLOROFORM	
G81DUA	MW-81	8/16/1999	PROFILE	230.00	235.00	201.50	206.50	8330N	3-NITROTOLUENE	NO
G81DUA	MW-81	8/16/1999	PROFILE	230.00	235.00	201.50	206.50	8330N	NITROGLYCERIN	NO
G82DAA	MW-82	8/17/1999	PROFILE	32.00	32.00	2.90	2.90	8330N	3-NITROTOLUENE	NO
G82DAA	MW-82	8/17/1999	PROFILE	32.00	32.00	2.90	2.90	8330N	NITROGLYCERIN	NO
G82DAA	MW-82	8/17/1999	PROFILE	32.00	32.00	2.90	2.90	OC21V	2-HEXANONE	
G82DAA	MW-82	8/17/1999	PROFILE	32.00	32.00	2.90	2.90	OC21V	ACETONE	
G82DAA	MW-82	8/17/1999	PROFILE	32.00	32.00	2.90	2.90	OC21V	CHLOROFORM	
G82DAA	MW-82	8/17/1999	PROFILE	32.00	32.00	2.90	2.90	OC21V	METHYL ETHYL KETONE (2-BUT.	
G82DAA	MW-82	8/17/1999	PROFILE	32.00	32.00	2.90	2.90	OC21V	TOLUENE	
G82DBA	MW-82	8/17/1999	PROFILE	40.00	45.00	10.90	15.90	8330N	3-NITROTOLUENE	NO
G82DBA	MW-82	8/17/1999	PROFILE	40.00	45.00	10.90	15.90	8330N	NITROGLYCERIN	NO
G82DBA	MW-82	8/17/1999	PROFILE	40.00	45.00	10.90	15.90	OC21V	2-HEXANONE	
G82DBA	MW-82	8/17/1999	PROFILE	40.00	45.00	10.90	15.90	OC21V	ACETONE	
G82DBA	MW-82	8/17/1999	PROFILE	40.00	45.00	10.90	15.90	OC21V	CHLOROFORM	
G82DBA	MW-82	8/17/1999	PROFILE	40.00	45.00	10.90	15.90	OC21V	METHYL ETHYL KETONE (2-BUT.	

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DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 8/1/99-8/28/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G82DBA	MW-82	8/17/1999	PROFILE	40.00	45.00	10.90	15.90	OC21V	TOLUENE	
G82DCA	MW-82	8/17/1999	PROFILE	50.00	55.00	20.90	25.90	OC21V	ACETONE	
G82DCA	MW-82	8/17/1999	PROFILE	50.00	55.00	20.90	25.90	OC21V	CHLOROFORM	
G82DCA	MW-82	8/17/1999	PROFILE	50.00	55.00	20.90	25.90	OC21V	METHYL ETHYL KETONE (2-BUT.	
G82DCA	MW-82	8/17/1999	PROFILE	50.00	55.00	20.90	25.90	OC21V	TOLUENE	
G82DDA	MW-82	8/18/1999	PROFILE	60.00	65.00	30.90	35.90	OC21V	ACETONE	
G82DDA	MW-82	8/18/1999	PROFILE	60.00	65.00	30.90	35.90	OC21V	CHLOROFORM	
G82DDA	MW-82	8/18/1999	PROFILE	60.00	65.00	30.90	35.90	OC21V	TOLUENE	
G82DEA	MW-82	8/18/1999	PROFILE	70.00	75.00	40.90	45.90	OC21V	ACETONE	
G82DEA	MW-82	8/18/1999	PROFILE	70.00	75.00	40.90	45.90	OC21V	CHLOROFORM	
G82DEA	MW-82	8/18/1999	PROFILE	70.00	75.00	40.90	45.90	OC21V	METHYL ETHYL KETONE (2-BUT.	
G82DEA	MW-82	8/18/1999	PROFILE	70.00	75.00	40.90	45.90	OC21V	TOLUENE	
G82DFA	MW-82	8/18/1999	PROFILE	80.00	85.00	50.90	55.90	OC21V	ACETONE	
G82DFA	MW-82	8/18/1999	PROFILE	80.00	85.00	50.90	55.90	OC21V	CHLOROFORM	
G82DFA	MW-82	8/18/1999	PROFILE	80.00	85.00	50.90	55.90	OC21V	TOLUENE	
G82DGA	MW-82	8/18/1999	PROFILE	90.00	95.00	60.90	65.90	OC21V	ACETONE	
G82DGA	MW-82	8/18/1999	PROFILE	90.00	95.00	60.90	65.90	OC21V	CHLOROFORM	
G82DGA	MW-82	8/18/1999	PROFILE	90.00	95.00	60.90	65.90	OC21V	METHYL ETHYL KETONE (2-BUT.	
G82DGA	MW-82	8/18/1999	PROFILE	90.00	95.00	60.90	65.90	OC21V	TOLUENE	
G82DHA	MW-82	8/18/1999	PROFILE	100.00	105.00	70.90	75.90	OC21V	ACETONE	
G82DHA	MW-82	8/18/1999	PROFILE	100.00	105.00	70.90	75.90	OC21V	CHLOROFORM	
G82DHA	MW-82	8/18/1999	PROFILE	100.00	105.00	70.90	75.90	OC21V	TOLUENE	
G82DIA	MW-82	8/18/1999	PROFILE	110.00	115.00	80.90	85.90	OC21V	CHLOROFORM	
G83DAA	MW-83	8/18/1999	PROFILE	37.00	42.00	0.00	5.00	OC21V	ACETONE	
G83DAA	MW-83	8/18/1999	PROFILE	37.00	42.00	0.00	5.00	OC21V	CHLOROFORM	
G83DAA	MW-83	8/18/1999	PROFILE	37.00	42.00	0.00	5.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G83DAA	MW-83	8/18/1999	PROFILE	37.00	42.00	0.00	5.00	OC21V	TOLUENE	
G83DBA	MW-83	8/18/1999	PROFILE	50.00	55.00	13.00	18.00	OC21V	ACETONE	
G83DBA	MW-83	8/18/1999	PROFILE	50.00	55.00	13.00	18.00	OC21V	CHLOROFORM	
G83DBA	MW-83	8/18/1999	PROFILE	50.00	55.00	13.00	18.00	OC21V	TOLUENE	
G83DCA	MW-83	8/19/1999	PROFILE	60.00	65.00	23.00	28.00	OC21V	CHLOROFORM	
G83DCA	MW-83	8/19/1999	PROFILE	60.00	65.00	23.00	28.00	OC21V	TOLUENE	
G83DDA	MW-83	8/19/1999	PROFILE	70.00	75.00	33.00	38.00	OC21V	CHLOROFORM	

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SAMPLES COLLECTED 8/1/99-8/28/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G83DDA	MW-83	8/19/1999	PROFILE	70.00	75.00	33.00	38.00	OC21V	TOLUENE	
G83DEA	MW-83	8/19/1999	PROFILE	80.00	85.00	43.00	48.00	OC21V	CHLOROFORM	
G83DEA	MW-83	8/19/1999	PROFILE	80.00	85.00	43.00	48.00	OC21V	TOLUENE	
G83DFA	MW-83	8/19/1999	PROFILE	90.00	95.00	53.00	58.00	OC21V	CHLOROFORM	
G83DFA	MW-83	8/19/1999	PROFILE	90.00	95.00	53.00	58.00	OC21V	TOLUENE	
G83DGA	MW-83	8/19/1999	PROFILE	100.00	105.00	63.00	68.00	OC21V	CHLOROFORM	
G83DGA	MW-83	8/19/1999	PROFILE	100.00	105.00	63.00	68.00	OC21V	TOLUENE	
G83DHA	MW-83	8/19/1999	PROFILE	110.00	115.00	73.00	78.00	OC21V	TOLUENE	
G83DIA	MW-83	8/19/1999	PROFILE	120.00	125.00	83.00	88.00	OC21V	CHLOROFORM	
G83DJA	MW-83	8/19/1999	PROFILE	130.00	135.00	93.00	98.00	OC21V	CHLOROFORM	
G83DMA	MW-83	8/20/1999	PROFILE	160.00	165.00	123.00	128.00	8330N	PICRIC ACID	NO
G83DOA	MW-83	8/23/1999	PROFILE	180.00	185.00	143.00	148.00	8330N	3-NITROTOLUENE	NO
G83DOA	MW-83	8/23/1999	PROFILE	180.00	185.00	143.00	148.00	8330N	PICRIC ACID	NO
G84DAA	MW-84	8/25/1999	PROFILE	40.00	45.00	1.15	6.15	OC21V	ACETONE	
G84DBA	MW-84	8/25/1999	PROFILE	50.00	55.00	11.15	16.15	OC21V	CHLOROFORM	
G84DCA	MW-84	8/25/1999	PROFILE	60.00	65.00	21.15	26.15	OC21V	CHLOROFORM	
G84DDA	MW-84	8/25/1999	PROFILE	70.00	75.00	31.15	36.15	OC21V	CHLOROFORM	
G84DEA	MW-84	8/25/1999	PROFILE	80.00	85.00	41.15	46.15	OC21V	CHLOROFORM	
G84DFA	MW-84	8/25/1999	PROFILE	90.00	95.00	51.15	56.15	OC21V	CHLOROFORM	
G84DGA	MW-84	8/26/1999	PROFILE	100.00	105.00	61.15	66.15	OC21V	CHLOROFORM	
G84DHA	MW-84	8/26/1999	PROFILE	110.00	115.00	71.15	76.15	OC21V	CHLOROFORM	
G84DIA	MW-84	8/26/1999	PROFILE	120.00	125.00	81.15	86.15	OC21V	CHLOROFORM	
G84DJA	MW-84	8/26/1999	PROFILE	130.00	135.00	91.15	96.15	OC21V	CHLOROFORM	
G84DKA	MW-84	8/26/1999	PROFILE	140.00	145.00	101.15	106.15	OC21V	CHLOROFORM	

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