

To: cynthia.baran@state.ma.us (Cynthia Baran)
From: "James J. Decoulos" <jamesj@decoulos.com>
Subject: Eagle Gas, Carver, MA
Cc:
Bcc:
Attached: C:\IBM HD\Xls\Eagle Gas\Eagle Gas Sediment June 2004.xls; C:\IBM HD\Xls\Eagle Gas\Eagle Gas Surface Water June 2004.xls; C:\PDFs\Eagle Gas\south meadow brook sampling locations june 04.pdf;

Cynthia,

Attached are surface water and sediment tables, together with a plan showing the sampling locations.

Suggested bullet points for today's meeting:

1. How do we obtain permission from Stephen Davis to maintain absorbent controls at the brook and conduct further remedial actions?
2. What roles should Davis, the Town and Richard Nantais play in addressing the stormwater system contamination?
3. What role should Nantais play in addressing the gasoline NAPL remediation at DCW-1?

Feel free to call.

Jim

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Table 5
Positive Lab Results for Sediment Samples
131 Main Street, Carver, MA
June, 2004

		MAIN ST CATCH BASIN								MCP Method 1 Standards for Soil		
Sample ID: Lab ID: Date Collected: Units:		ESE-1 149941 06/03/04 mg/Kg	ESE-2 149942 06/03/04 mg/Kg	ESE-3 149943 06/03/04 mg/Kg	ESE-4 149944 06/03/04 mg/Kg	ESE-5 149945 06/03/04 mg/Kg	ESE-6 149946 06/03/04 mg/Kg	ESE-7 149947 06/03/04 mg/Kg	CB-A 151143 06/24/04 mg/Kg	UCLs mg/Kg	S1/GW1 mg/Kg	S1/GW3 mg/Kg
Parameter												
Diesel PAH Analytes	Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	10,000	4.00	100
	2-Methylnaphthalene	0.716	1.06	1.93	ND	ND	ND	ND	ND	10,000	4.00	500
	Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	10,000	20	1000
	Phenanthrene	1.30	4.38	4.47	1.35	0.404	0.325	0.244	16.6	10,000	700	100
	Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	10,000	100	100
	Fluorene	0.403	0.738	ND	ND	ND	ND	ND	ND	10,000	400	1000
	Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	10,000	1000	1000
	Fluoranthene	1.36	7.10	6.43	1.41	1.08	0.847	0.431	20.0	10,000	1000	1000
Other Target PAH Analytes	Pyrene	1.05	5.38	5.00	1.27	0.838	0.780	0.431	21.0	10,000	700	700
	Benz[a]Anthracene	0.366	2.15	1.87	0.443	0.421	0.490	0.281	ND	100	0.70	0.70
	Chrysene	0.637	3.32	3.00	0.630	0.621	0.569	0.294	12.0	400	7.0	7.0
	Benzo[b]Fluoranthene	0.734	3.62	3.53	0.705	0.647	0.631	0.331	16.6	400	0.70	0.70
	Benzo[k]Fluoranthene	0.300	1.12	0.991	0.235	0.234	0.298	ND	14.0	100	7.0	7.0
	Benzo[a]Pyrene	0.382	1.87	1.79	0.335	0.391	0.341	0.194	ND	100	0.70	0.70
	Indeno[1,2,3-c,d]Pyrene	0.250	1.06	1.14	0.214	0.217	0.231	ND	ND	100	0.70	0.70
	Dibenzo[a,h]Anthracene	ND	0.414	0.350	ND	ND	ND	ND	ND	100	0.70	0.70
EPH Fractions	Benzo[g,h,i]Perylene	0.324	1.31	1.37	0.249	0.332	0.302	0.156	ND	10,000	1000	1000
	C9-C18 Aliphatic	398	1480	1800	494	153	ND	ND	30	20,000	1000	1000
	C19-C36 Aliphatic	402	1240	1450	408	605	318	272	136	20,000	2500	2500
	C11-C22 Aromatic	316	826	1410	356	289	97	103	ND	10,000	200	800
Heavy Metals	ARSENIC	ND	ND	ND	ND	ND	ND	ND	ND		30	30
	BARIUM	5.83	9.31	10.5	7.63	24.2	43.3	87.2	5.65		1000	1000
	CADMIUM	ND	ND	ND	ND	ND	ND	ND	ND		30	30
	CHROMIUM	ND	ND	7.47	ND	ND	20.7	18.8	19.6		1000	1000
	LEAD	11.7	15.8	18.4	ND	61.1	172	226	16.4		300	300
	MERCURY	ND	ND	ND	0.577	0.164	ND	1.45	ND		20	20
	SELENIUM	ND	ND	ND	ND	ND	ND	ND	ND		400	400
	SILVER	ND	ND	ND	ND	ND	1.42	1.66	ND		100	100

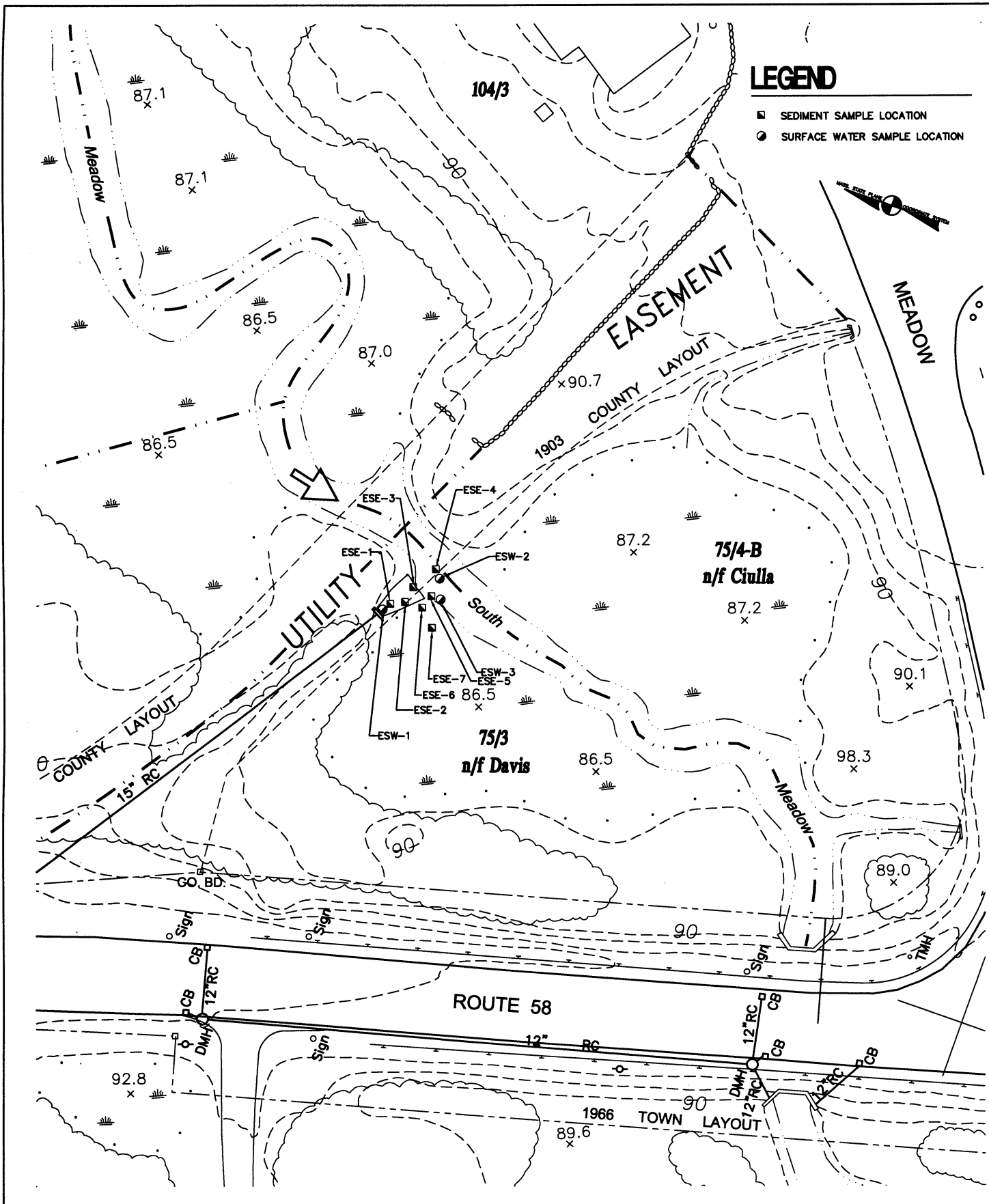
Note: Exceedance of Method 1 Standard is highlighted.

Table 4
Positive Lab Results for Surface Water Samples
131 Main Street, Carver, MA
June, 2004

		STORMWATER OUTFALL									
		WET	FLOW		DRY FLOW						
Sample ID: Lab ID: Date Collected: Units:		DC-A1 134704 05/21/03 µg/L	DC-B1 134705 05/21/03 µg/L	DC-C1 134706 05/21/03 µg/L	ESW-1 151140 06/24/04 µg/L	ESW-2 151141 06/24/04 µg/L	ESW-3 151142 06/24/04 µg/L	MCP Method 1 Standards			
Parameter								UCLs µg/L	GW1 µg/L	GW2 µg/L	GW3 µg/L
	Methyl tert-butyl ether							100,000	70	50,000	50,000
	Benzene							70,000	5	2,000	7,000
	Toluene							100,000	1000	6,000	50,000
	Ethylbenzene							100,000	700	30,000	4,000
	m & p-Xylenes							100,000	10000	6,000	50,000
	o-Xylene							100,000	10000	6,000	50,000
	Naphthalene							60,000	20	6,000	6,000
VPH Fractions	C5-C8 Aliphatic							100,000	400	1,000	4,000
	C9-C12 Aliphatic							100,000	4000	1,000	20,000
	C9-C10 Aromatic							100,000	200	5,000	4,000

Diesel PAH Analytes	Naphthalene	113	110	117	ND	ND	ND	60,000	20	6,000	6,000
	2-Methylnaphthalene	4597	4524	4854	1.73	ND	ND	100,000	10	10,000	3,000
	Acenaphthene	51.5	40.9	31.8	ND	ND	ND	50,000	20	NA	5,000
	Phenanthrene	73.9	ND	ND	2.43	ND	ND	3,000	300	NA	50
	Acenaphthylene	13.1	10.3	9.00	ND	ND	ND	30,000	300	NA	3,000
	Fluorene	182	180	150	ND	ND	ND	30,000	300	NA	3,000
	Anthracene	308	260	281	ND	ND	ND	30,000	2000	NA	3,000
	Fluoranthene	9.91	8.12	10.0	ND	ND	ND	3,000	300	NA	200
Other Target PAH Analytes	Pyrene	58.4	63.4	70.9	2.7	ND	ND	30,000	200	NA	3,000
	Benz[a]Anthracene	ND	ND	ND	ND	ND	ND	30,000	1.0	NA	3,000
	Chrysene	2.22	2.76	2.86	ND	ND	ND	30,000	2.0	NA	3,000
	Benzo[b]Fluoranthene	ND	ND	ND	ND	ND	ND	30,000	1.0	NA	3,000
	Benzo[k]Fluoranthene	0.636	0.742	0.265	ND	ND	ND	30,000	1.0	NA	3,000
	Benzo[a]Pyrene	0.431	0.474	0.571	ND	ND	ND	30,000	0.20	NA	3,000
	Indeno[1,2,3-c,d]Pyrene	ND	0.247	0.367	ND	ND	ND	30,000	8.0	10	5,000
	Dibenzo[a,h]Anthracene	ND	ND	ND	ND	ND	ND	30,000	0.50	NA	3,000
EPH Fractions	Benzo[g,h,i]Perylene	ND	ND	ND	ND	ND	ND	30,000	300	NA	3,000
	C9-C18 Aliphatic	2040000	2040000	2150000	6440	ND	ND	100,000	4000	1,000	20,000
	C19-C36 Aliphatic	732000	696000	721000	8470	ND	ND	100,000	5000	NA	20,000
	C11-C22 Aromatic	451000	858000	788000	2130	ND	ND	100,000	200	50,000	30,000

Note: Exceedance of Method 1 Standard is highlighted.



LEGEND

- SEDIMENT SAMPLE LOCATION
- SURFACE WATER SAMPLE LOCATION

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SAMPLING LOCATIONS SOUTH MEADOW BROOK CARVER, MASSACHUSETTS

DATE
 JUNE 2004
 SCALE
 1" = 60'
 FIGURE NO.
 1