US EPA RECORDS CENTER REGION 5
444933

Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

February 10, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during December 1998 and January 1999

- Conducted site visits on December 7, 1998, and January 11, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through February 5, 1999, is shown on the attached graph.

The storage tank was emptied of oil and water on January 14, 1999. Since then, 29 gallons of product has accumulated in the tank.

Monthly Operation Summary, Probiems Encountered and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Product collection appears to increase during decreasing or stable water elevations. During the January visit, five of the recovery wells showed a decrease in product thickness from the previous measurements, product thickness in three was unchanged, and in six product increased..

Work Schedule for February 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Mr. Jim Cunningham - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

11/2/98

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		21.66		0.00	549.47	8.27
GM23D	EB	21.52	21.44	0.08	549.41	13.39
GM24S		19.13		0.00	551.16	2.97
GM24D	EB	22.38	21.72	0.66	549.51	7.30
GM25D	EB	24.71	22.38	2.33	549.21	6.91
GM28S		17.41		0.00	553.32	4.44
GM28D		21.11		0.00	549.73	8.84
GM29S		18.09		0.00	553.07	3.93
GM31	EB	21.85	21.61	0.24	549.65	11.60
GM32		21.57		0.00	549.45	13.44
RW4		21.60		0.00	549.35	11.15
RW5	T	23.14	21.16	1.98	549.64	11.14
RW6	T	21.57	21.50	0.07	549.44	10.24
RW7		21.54	21.53	0.01	549.42	11.52
C2 *		19.14		0.00	552.04	1.96
C3 *	B	14.72	14.68	0.04	552.77	5.56
D1 *		17.64		0.00	553.42	2.57
G3 *		21.33		0.00	550.03	11.73
I1	B	22.55	21.50	1.05	549.21	12.68
J2 *	EB	16.26	15.85	0.41	550.59	12.49

12/7/98

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)	Well Depth from TOC (ft)
GM22D	EB	22.18	21.76	0.42	549.32	8.12	29.93
GM23D		21.44		0.00	549.42	13.40	34.84
GM24S		19.35		0.00	550.94	2.75	22.10
GM24D	EB	21.85		0.00	549.46	7.25	29.10
GM25D	EB	22.76		0.00	549.12	6.82	29.58
GM28S	EB	18.48	17.58	0.90	553.04	4.16	21.85
GM28D		21.24		0.00	549.60	8.71	29.95
GM29S		18.34		0.00	552.82	3.68	22.02
GM31		21.77		0.00	549.52	11.47	33.24
GM32		21.64		0.00	549.38	13.37	35.01
RW4		21.64		0.00	549.31	11.11	32.75
RW5		21.54		0.00	549.51	11.01	32.55
RW6		21.59		0.00	549.36	10.16	31.75
RW7		21.68		0.00	549.27	11.37	33.05
C2 *	T	19.52	19.46	0.06	551.71	1.63	21.10
C3 *	B	15.13	15.08	0.05	552.36	5.16	20.25
D1 *		17.89		0.00	553.17	2.32	20.21
G3 *		21.39		0.00	549.97	11.67	33.06
I1	B	22.39	21.26	1.13	549.44	12.91	34.31
J2 *	EB	16.77	16.22	0.55	550.20	12.10	28.39

1/11/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		21.32		0.00	549.81	8.61
GM23D		21.09		0.00	549.77	13.75
GM24S		19.58	19.53	0.05	550.75	2.56
GM24D	EB	21.39	21.36	0.03	549.95	7.74
GM25D	EB	24.45	21.99	2.46	549.58	7.28
GM28S		18.07		0.00	552.66	3.78
GM28D		20.81		0.00	550.03	9.14
GM29S	EB	18.93	18.57	0.36	552.55	3.41
GM31		21.24		0.00	550.05	12.00
GM32		21.27		0.00	549.75	13.74
RW4		21.02		0.00	549.93	11.73
RW5	T	21.12	20.95	0.17	550.08	11.58
RW6	T	21.40	21.00	0.40	549.90	10.70
RW7	T	21.07	20.90	0.17	550.03	12.13
C2 *	T	19.67	19.63	0.04	551.55	1.47
C3 *	B	15.59	15.53	0.06	551.91	4.71
D1 *		18.28		0.00	552.78	1.93
G3 *		21.01		0.00	550.35	12.05
I1	EB	22.47	20.79	1.68	549.84	13.31
J2 *	EB	16.44	15.90	0.54	550.52	12.42

* = new 4" wells installed over old 2" blocked wells

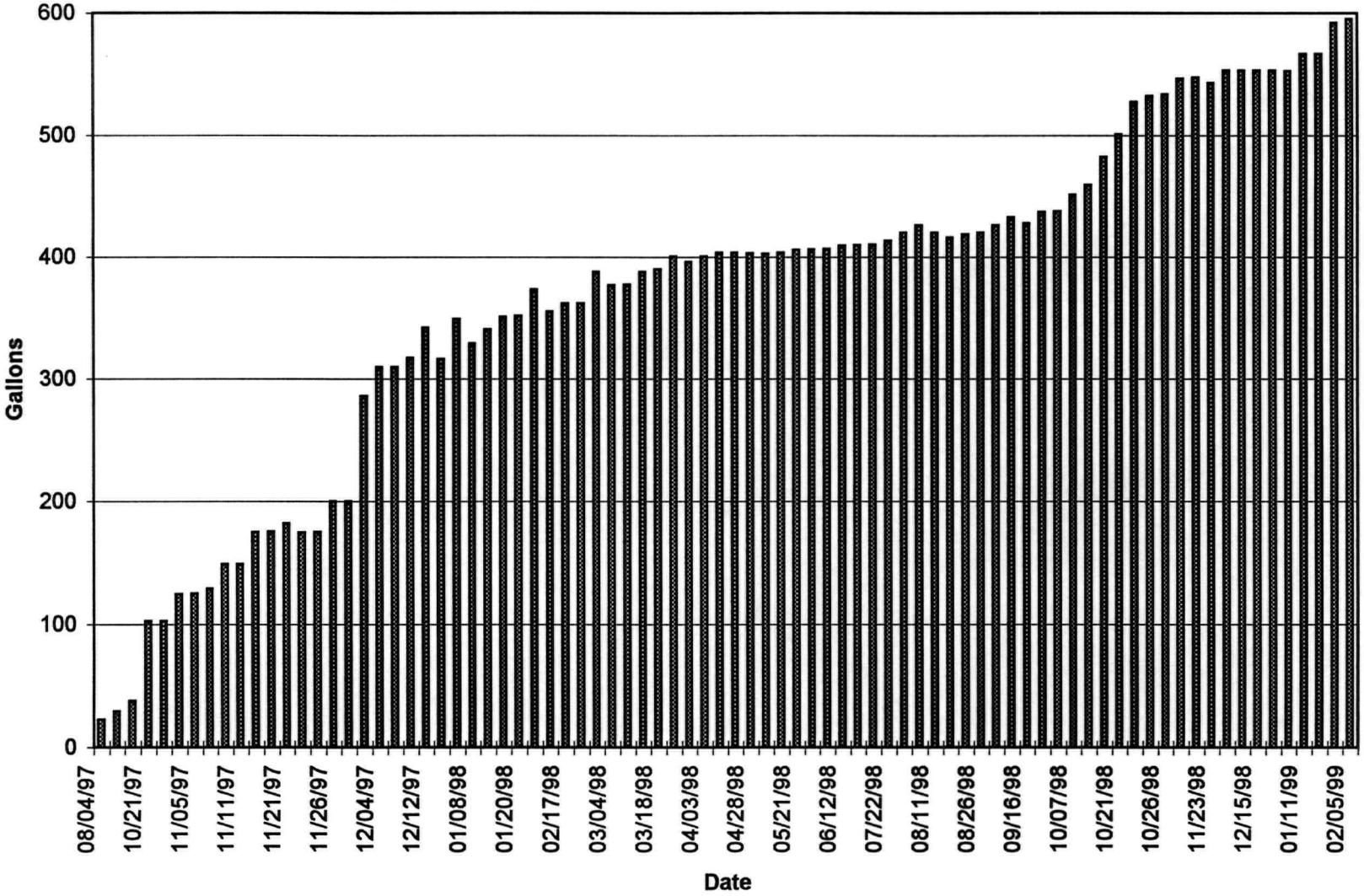
= wells with operating skimmers after visit

T = tidal skimmer

B = bottom skimmer

SKIMWELS.XLS

Cumulative Product Recovery Since mid-July 1997
Adjusted for Tank Product Fluctuations
Sylvan Slough Removal Action Site, Rock Island, Illinois



prod_graphADJ

Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

March 18, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during February 1999

- Conducted site visits on February 14 and 15, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through March 2, 1999, is shown on the attached graph.

The storage tank was emptied of oil and water on January 14, 1999. Since then, 40 gallons of product has accumulated in the tank.

Monthly Operation Summary, Problems Encountered and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Product collection appears to increase during decreasing or stable water elevations. During the February visit, three of the recovery wells showed a decrease in product thickness from the previous measurements, product thickness in five were unchanged, and in four product increased..

Work Schedule for March 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

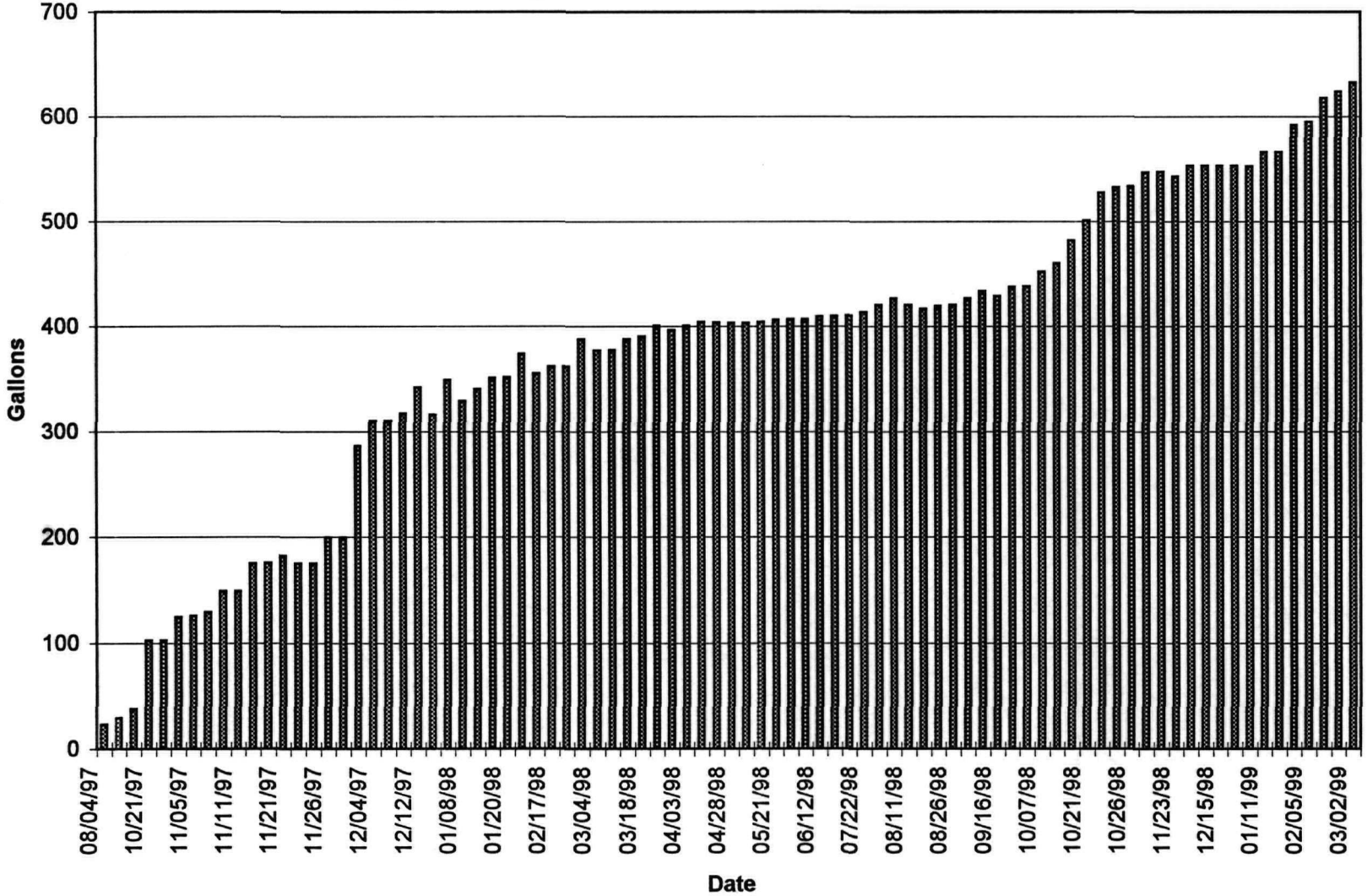
Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Mr. Jim Cunningham - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Cumulative Product Recovery Since mid-July 1997
Adjusted for Tank Product Fluctuations
Sylvan Slough Removal Action Site, Rock Island, Illinois



prod_graphADJ

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

12/7/98							1/11/99								2/15/99						
Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)	Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)	Well Depth from TOC (ft)	Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	EB	22.18	21.76	0.42	549.32	8.12	GM22D		21.32		0.00	549.81	8.61	29.93	GM22D		21.43		0.00	549.70	8.50
GM23D		21.44		0.00	549.42	13.40	GM23D		21.09		0.00	549.77	13.75	34.84	GM23D	B	21.20	21.07	0.13	549.77	13.75
GM24S		19.35		0.00	550.94	2.75	GM24S		19.58	19.53	0.05	550.75	2.56	22.10	GM24S	EB	19.88	19.52	0.36	550.73	2.54
GM24D	EB	21.85		0.00	549.46	7.25	GM24D	EB	21.39	21.36	0.03	549.95	7.74	29.10	GM24D	EB	21.48	21.42	0.06	549.88	7.67
GM25D	EB	22.76		0.00	549.12	6.82	GM25D	EB	24.45	21.99	2.46	549.58	7.28	29.58	GM25D	EB	24.60	22.00	2.60	549.56	7.26
GM28S	EB	18.48	17.58	0.90	553.04	4.16	GM28S		18.07		0.00	552.66	3.78	21.85	GM28S	EB	18.64	17.89	0.75	552.75	3.87
GM28D		21.24		0.00	549.60	8.71	GM28D		20.81		0.00	550.03	9.14	29.95	GM28D		20.91		0.00	549.93	9.04
GM29S		18.34		0.00	552.82	3.68	GM29S	EB	18.93	18.57	0.36	552.55	3.41	22.02	GM29S	EB	18.78	18.61	0.17	552.53	3.39
GM31		21.77		0.00	549.52	11.47	GM31		21.24		0.00	550.05	12.00	33.24	GM31		21.37		0.00	549.92	11.87
GM32		21.64		0.00	549.38	13.37	GM32		21.27		0.00	549.75	13.74	35.01	GM32		21.37		0.00	549.65	13.64
RW4		21.64		0.00	549.31	11.11	RW4		21.02		0.00	549.93	11.73	32.75	RW4		21.08		0.00	549.87	11.67
RW5		21.54		0.00	549.51	11.01	RW5	T	21.12	20.95	0.17	550.08	11.58	32.55	RW5	T	21.08	21.00	0.08	550.04	11.54
RW6		21.59		0.00	549.36	10.16	RW6	T	21.40	21.00	0.40	549.90	10.70	31.75	RW6		21.08		0.00	549.87	10.67
RW7		21.68		0.00	549.27	11.37	RW7	T	21.07	20.90	0.17	550.03	12.13	33.05	RW7	T	21.03	20.98	0.05	549.96	12.06
C2 *	T	19.52	19.46	0.06	551.71	1.63	C2 *	T	19.67	19.63	0.04	551.55	1.47	21.10	C2 *	B	19.74	19.68	0.06	551.49	1.41
C3 *	B	15.13	15.08	0.05	552.36	5.16	C3 *	B	15.59	15.53	0.06	551.91	4.71	20.25	C3 *	B	15.61	15.54	0.07	551.90	4.70
D1 *		17.89		0.00	553.17	2.32	D1 *		18.28		0.00	552.78	1.93	20.21	D1 *		18.28		0.00	552.78	1.93
G3 *		21.39		0.00	549.97	11.67	G3 *		21.01		0.00	550.35	12.05	33.06	G3 *		21.01		0.00	550.35	12.05
I1	B	22.39	21.26	1.13	549.44	12.91	I1	EB	22.47	20.79	1.68	549.84	13.31	34.31	I1	EB	22.46	20.80	1.66	549.83	13.30
J2 *	EB	16.77	16.22	0.55	550.20	12.10	J2 *	EB	16.44	15.90	0.54	550.52	12.42	28.39	J2 *	EB	16.57	15.99	0.58	550.43	12.33

* = new 4" wells installed over old 2" blocked wells

= wells with operating skimmers after visit

T = tidal skimmer

B = bottom skimmer

EB= extended bottom skimmer

Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

April 15, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during March 1999

- Conducted site visits on March 22 and 23, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through March 23, 1999, is shown on the attached graph.

The storage tank was emptied of oil and water on January 14, 1999. Since then, 88 gallons of product has accumulated in the tank.

Monthly Operation Summary, Problems Encountered and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Product collection appears to increase during decreasing or stable water elevations. During the March visit, five of the recovery wells showed a decrease in product thickness from the previous measurements, product thickness in six were unchanged, and in three product increased.

During the site visit on March 23, a 2.04, 4.38, and .61 feet was measured in recovery wells GM22D, GM24D, and J2, respectively. The skimmer pumps in GM24D and J2 did not appear to be operating effectively and were removed for maintenance. A portable air diaphragm pump was used to remove product from each of the wells.

Work Schedule for April 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

- Place boom in slough to collect product leaching from river bank.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Mr. Jim Cunningham - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

1/11/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		21.32		0.00	549.81	8.61
GM23D		21.09		0.00	549.77	13.75
GM24S		19.58	19.53	0.05	550.75	2.56
GM24D	EB	21.39	21.36	0.03	549.95	7.74
GM25D	EB	24.45	21.99	2.46	549.58	7.28
GM28S		18.07		0.00	552.66	3.78
GM28D		20.81		0.00	550.03	9.14
GM29S	EB	18.93	18.57	0.36	552.55	3.41
GM31		21.24		0.00	550.05	12.00
GM32		21.27		0.00	549.75	13.74
RW4		21.02		0.00	549.93	11.73
RW5	T	21.12	20.95	0.17	550.08	11.58
RW6	T	21.40	21.00	0.40	549.90	10.70
RW7	T	21.07	20.90	0.17	550.03	12.13
C2 *	T	19.67	19.63	0.04	551.55	1.47
C3 *	B	15.59	15.53	0.06	551.91	4.71
D1 *		18.28		0.00	552.78	1.93
G3 *		21.01		0.00	550.35	12.05
I1	EB	22.47	20.79	1.68	549.84	13.31
J2 *	EB	16.44	15.90	0.54	550.52	12.42

2/15/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)	Well Depth from TOC (ft)
GM22D		21.43		0.00	549.70	8.50	29.93
GM23D	B	21.20	21.07	0.13	549.77	13.75	34.84
GM24S	EB	19.88	19.52	0.36	550.73	2.54	22.10
GM24D	EB	21.48	21.42	0.06	549.88	7.67	29.10
GM25D	EB	24.60	22.00	2.60	549.56	7.26	29.58
GM28S	EB	18.64	17.89	0.75	552.75	3.87	21.85
GM28D		20.91		0.00	549.93	9.04	29.95
GM29S	EB	18.78	18.61	0.17	552.53	3.39	22.02
GM31		21.37		0.00	549.92	11.87	33.24
GM32		21.37		0.00	549.65	13.64	35.01
RW4		21.08		0.00	549.87	11.67	32.75
RW5	T	21.08	21.00	0.08	550.04	11.54	32.55
RW6		21.08		0.00	549.87	10.67	31.75
RW7	T	21.03	20.98	0.05	549.96	12.06	33.05
C2 *	B	19.74	19.68	0.06	551.49	1.41	21.10
C3 *	B	15.61	15.54	0.07	551.90	4.70	20.25
D1 *		18.28		0.00	552.78	1.93	20.21
G3 *		21.01		0.00	550.35	12.05	33.06
I1	EB	22.46	20.80	1.66	549.83	13.30	34.31
J2 *	EB	16.57	15.99	0.58	550.43	12.33	28.39

3/23/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	P	22.73	20.69	2.04	550.19	8.98
GM23D	EB	20.74	20.59	0.15	550.25	14.23
GM24S	EB	20.07	19.77	0.30	550.48	2.29
GM24D	P	24.77	20.39	4.38	550.37	8.16
GM25D		22.12		0.00	549.76	7.46
GM28S	EB	18.84	18.21	0.63	552.44	3.56
GM28D		20.47		0.00	550.37	9.48
GM29S		18.82		0.00	552.34	3.20
GM31		20.85	20.84	0.01	550.45	12.40
GM32		20.79		0.00	550.23	14.22
RW4		20.52		0.00	550.43	12.23
RW5	T	20.57	20.52	0.05	550.52	12.02
RW6	T	21.30	20.48	0.82	550.37	11.17
RW7		21.03	20.98	0.05	549.96	12.06
C2 *		19.90		0.00	551.28	1.20
C3 *	B	15.85	15.81	0.04	551.64	4.43
D1 *		18.62		0.00	552.44	1.59
G3 *		20.41		0.00	550.95	12.65
I1	EB	20.54	20.53	0.01	550.31	13.78
J2 *	P	16.37	15.76	0.61	550.65	12.55

* = new 4" wells installed over old 2" blocked wells

P = product removed with air diaphragm pump

= wells with operating skimmers after visit

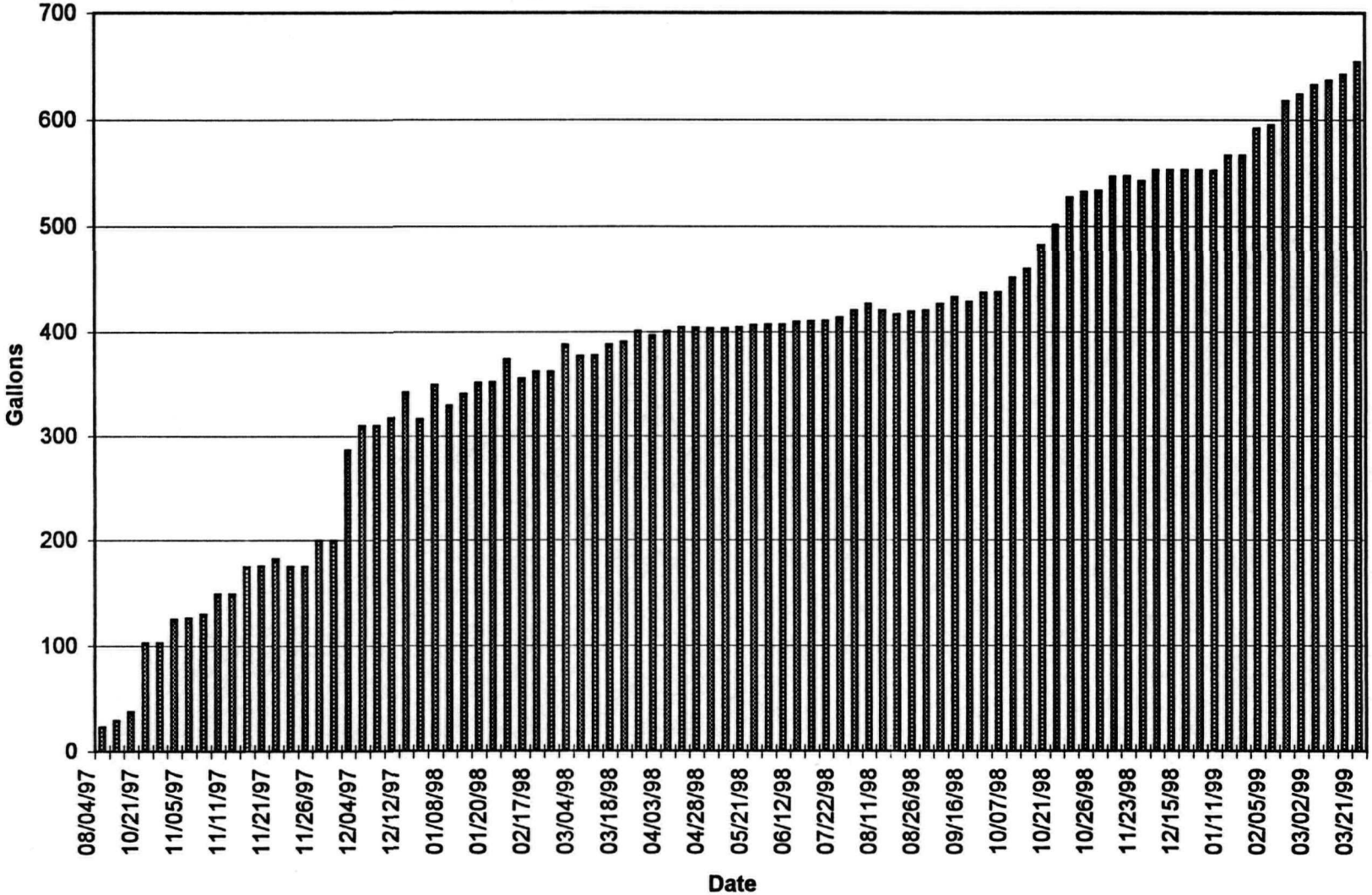
T = tidal skimmer

B = bottom skimmer

EB= extended bottom skimmer

SKIMWELS.XLS

Cumulative Product Recovery Since mid-July 1997
Adjusted for Tank Product Fluctuations
Sylvan Slough Removal Action Site, Rock Island, Illinois



prod_graphADJ

Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

June 16, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during May/June 1999

- Conducted site visits on May 11 and June 8, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through June 8, 1999, is shown on the attached graph.

Since the beginning of the year, 172 gallons of product has been recovered on site.

Monthly Operation Summary, Problems Encountered and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Ground water elevations are influenced by the water elevation of the river. Product collection appears to increase during decreasing or stable water elevations. From April to May water elevations decreased then increased from May to June due to heavy rains in the region. Subsequently, product was detected in 3 of the recovery wells in April, 12 in May, and 9 in June. The conditions observed in the recovery wells are typical for the decreasing and increasing water table fluctuations.

Use of the portable diaphragm pump during site visits has increased product recovery.

Work Schedule for June 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Ms. Judy McDonough - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

4/20/99							5/11/99								6/8/99						
Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)	Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)	Well Depth from TOC (ft)	Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		15.86		0.00	555.27	14.07	GM22D	B	19.63	19.61	0.02	551.52	10.32	29.93	GM22D	B	16.55	16.54	0.01	554.59	13.39
GM23D		15.40		0.00	555.46	19.44	GM23D	B	19.45	19.36	0.09	551.49	15.47	34.84	GM23D	B	16.28	16.25	0.03	554.61	18.59
GM24S		16.92		0.00	553.37	5.18	GM24S	B	16.74	16.72	0.02	553.57	5.38	22.10	GM24S		15.43		0.00	554.86	6.67
GM24D	P,EB	21.05	15.17	5.88	555.41	13.20	GM24D	P, EB	22.10	19.44	2.66	551.54	9.33	29.10	GM24D	EB	19.27	16.28	2.99	554.66	12.45
GM25D	P,EB	17.75	17.23	0.52	554.59	12.29	GM25D	EB	20.29	20.28	0.01	551.60	9.30	29.58	GM25D	EB	17.22	17.21	0.01	554.67	12.37
GM28S		16.70		0.00	554.03	5.15	GM28S	EB	15.95	15.62	0.33	555.07	6.19	21.85	GM28S		14.60		0.00	556.13	7.25
GM28D		15.42		0.00	555.42	14.53	GM28D		19.07		0.00	551.77	10.88	29.95	GM28D		16.06		0.00	554.78	13.89
GM29S		16.59		0.00	554.57	5.43	GM29S		16.66		0.00	554.50	5.36	22.02	GM29S		15.40		0.00	555.76	6.62
GM31		15.77		0.00	555.52	17.47	GM31	B	19.77	19.47	0.30	551.78	13.73	33.24	GM31	B	17.81	16.31	1.50	554.79	16.74
GM32		15.64		0.00	555.38	19.37	GM32		19.58		0.00	551.44	15.43	35.01	GM32		16.42		0.00	554.60	18.59
RW4		15.60		0.00	555.35	17.15	RW4		19.36		0.00	551.59	13.39	32.75	RW4		16.23		0.00	554.72	16.52
RW5	T	16.74	15.31	1.43	555.56	17.06	RW5	T	19.65	19.30	0.35	551.71	13.21	32.55	RW5	T	16.90	16.15	0.75	554.81	16.31
RW6		15.61		0.00	555.34	16.14	RW6	T	19.45	19.42	0.03	551.53	12.33	31.75	RW6	T	16.28	16.26	0.02	554.69	15.49
RW7		15.54		0.00	555.41	17.51	RW7		19.40		0.00	551.55	13.65	33.05	RW7		16.29		0.00	554.66	16.76
C2 *		16.54		0.00	554.64	4.56	C2 *	EB	17.00	16.97	0.03	554.21	4.13	21.10	C2 *		15.85		0.00	555.33	5.25
C3 *		13.33		0.00	554.12	6.92	C3 *	B	12.41	12.20	0.21	555.22	8.02	20.25	C3 *	B	10.90	10.74	0.16	556.69	9.49
D1 *		17.14		0.00	553.92	3.07	D1 *		16.07		0.00	554.99	4.14	20.21	D1 *		14.91		0.00	556.15	5.30
G3 *		16.26		0.00	555.10	16.80	G3 *		19.49		0.00	551.87	13.57	33.06	G3 *		16.56		0.00	554.80	16.50
I1		15.41		0.00	555.43	18.90	I1		19.31		0.00	551.53	15.00	34.31	I1		16.26		0.00	554.58	18.05
J2 *		11.26		0.00	555.23	17.13	J2 *	B	14.03	13.91	0.12	552.57	14.47	28.39	J2 *	B	11.48	11.41	0.07	555.07	16.97

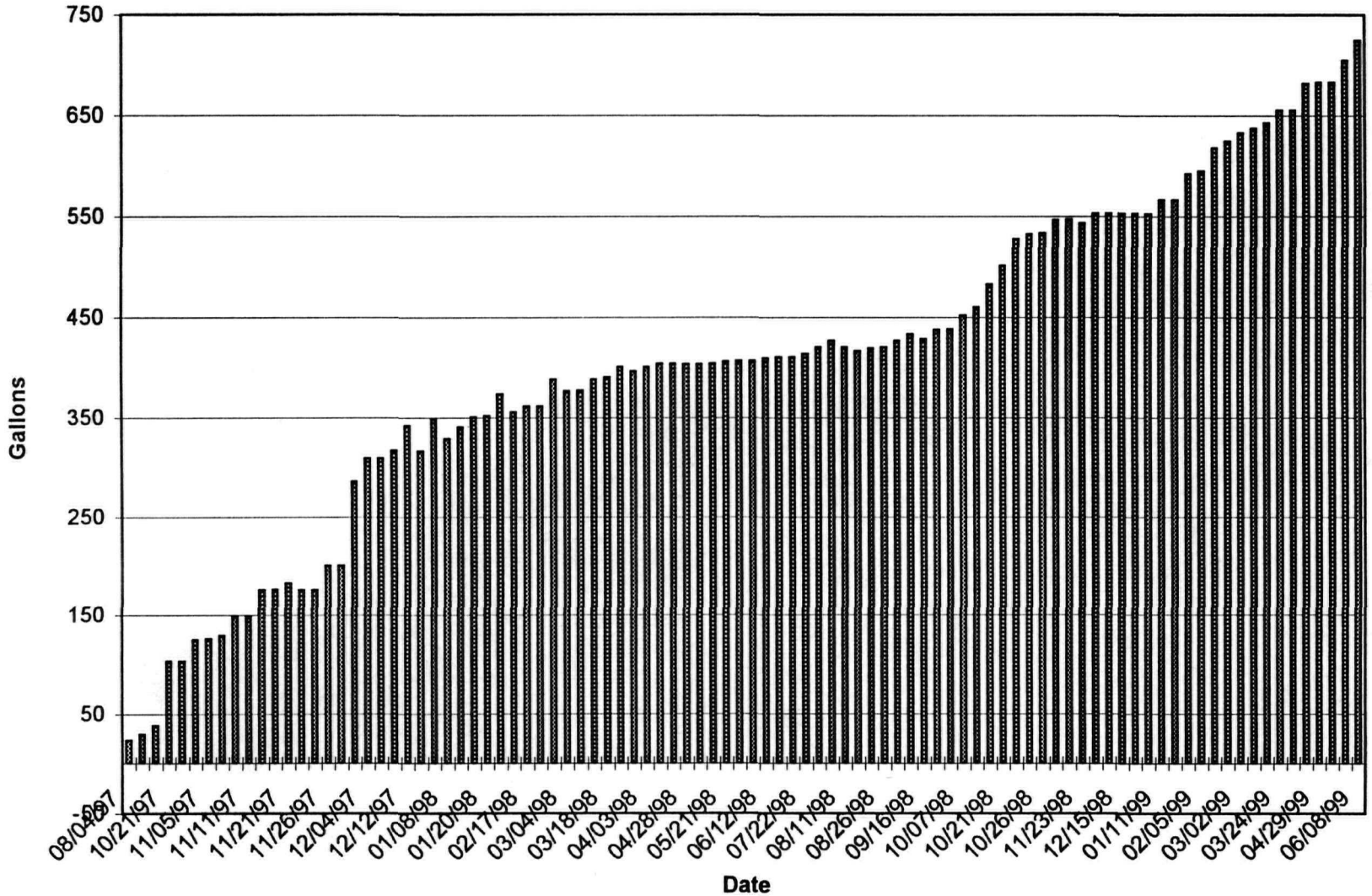
* = new 4" wells installed over old 2" blocked wells

P = product removed with air diaphragm pump

= wells with operating skimmers after visit

Skimwells.xls

Cumulative Product Recovery Since mid-July 1997
Sylvan Slough Removal Action Site, Rock Island, Illinois



PROD_GRAPH

Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

July 20, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during June/July 1999

- Conducted site visits on June 8 and July 13, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through July 13, 1999, is shown on the attached graph.

Since the beginning of the year, 176 gallons of product has been recovered on site.

Monthly Operation Summary, Problems Encountered and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Ground water elevations are influenced by the water elevation of the river. Product collection appears to increase during decreasing or stable water elevations. From April to May water elevations decreased then increased from May to June due to heavy rains in the region. Water levels are decreasing and we anticipate an increase in product collection. The conditions observed in the recovery wells are typical for the decreasing and increasing water table fluctuations.

During the July visit, product was measured in eight recovery wells.

Use of the portable diaphragm pump during site visits has increased product recovery.

Work Schedule for July 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

- Reconstruct recovery wells GM-32 and I-1 and monitoring wells I-2 and G-1 as flush grade wells to allow for construction of the bike path.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Ms. Judy McDonough - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

5/11/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	B	19.63	19.61	0.02	551.52	10.32
GM23D	B	19.45	19.36	0.09	551.49	15.47
GM24S	B	16.74	16.72	0.02	553.57	5.38
GM24D	P, EB	22.10	19.44	2.66	551.54	9.33
GM25D	EB	20.29	20.28	0.01	551.60	9.30
GM28S	EB	15.95	15.62	0.33	555.07	6.19
GM28D		19.07		0.00	551.77	10.88
GM29S		16.66		0.00	554.50	5.36
GM31	B	19.77	19.47	0.30	551.78	13.73
GM32		19.58		0.00	551.44	15.43
RW4		19.36		0.00	551.59	13.39
RW5	T	19.65	19.30	0.35	551.71	13.21
RW6	T	19.45	19.42	0.03	551.53	12.33
RW7		19.40		0.00	551.55	13.65
C2 *	EB	17.00	16.97	0.03	554.21	4.13
C3 *	B	12.41	12.20	0.21	555.22	8.02
D1 *		16.07		0.00	554.99	4.14
G3 *		19.49		0.00	551.87	13.57
I1		19.31		0.00	551.53	15.00
J2 *	B	14.03	13.91	0.12	552.57	14.47

6/8/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	B	16.55	16.54	0.01	554.59	13.39
GM23D	B	16.28	16.25	0.03	554.61	18.59
GM24S		15.43		0.00	554.86	6.67
GM24D	EB	19.27	16.28	2.99	554.66	12.45
GM25D	EB	17.22	17.21	0.01	554.67	12.37
GM28S		14.60		0.00	556.13	7.25
GM28D		16.06		0.00	554.78	13.89
GM29S		15.40		0.00	555.76	6.62
GM31	B	17.81	16.31	1.50	554.79	16.74
GM32		16.42		0.00	554.60	18.59
RW4		16.23		0.00	554.72	16.52
RW5	T	16.90	16.15	0.75	554.81	16.31
RW6	T	16.28	16.26	0.02	554.69	15.49
RW7		16.29		0.00	554.66	16.76
C2 *		15.85		0.00	555.33	5.25
C3 *	B	10.90	10.74	0.16	556.69	9.49
D1 *		14.91		0.00	556.15	5.30
G3 *		16.56		0.00	554.80	16.50
I1		16.26		0.00	554.58	18.05
J2 *	B	11.48	11.41	0.07	555.07	16.97

7/13/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		20.52		0.00	550.61	9.41
GM23D		20.31		0.00	550.55	14.53
GM24S		19.52		0.00	550.77	2.58
GM24D	EB	20.84	20.37	0.47	550.88	8.67
GM25D	EB	21.27	21.25	0.02	550.63	8.33
GM28S		18.79		0.00	551.94	3.06
GM28D	B	20.97	19.84	1.13	550.86	9.97
GM29S		19.56		0.00	551.60	2.46
GM31	B	21.57	20.43	1.14	550.72	12.67
GM32		20.53		0.00	550.49	14.48
RW4		20.42		0.00	550.53	12.33
RW5	T	20.71	20.45	0.26	550.57	12.07
RW6		20.41		0.00	550.54	11.34
RW7		16.29		0.00	554.66	16.76
C2 *		19.92		0.00	551.26	1.18
C3 *	B	15.12	14.75	0.37	552.65	5.45
D1 *		18.88		0.00	552.18	1.33
G3 *		20.43		0.00	550.93	12.63
I1		20.15		0.00	550.69	14.16
J2 *	B	16.04	16.00	0.04	550.49	12.39

* = new 4" wells installed over old 2" blocked wells

= wells with operating skimmers after visit

T = tidal skimmer

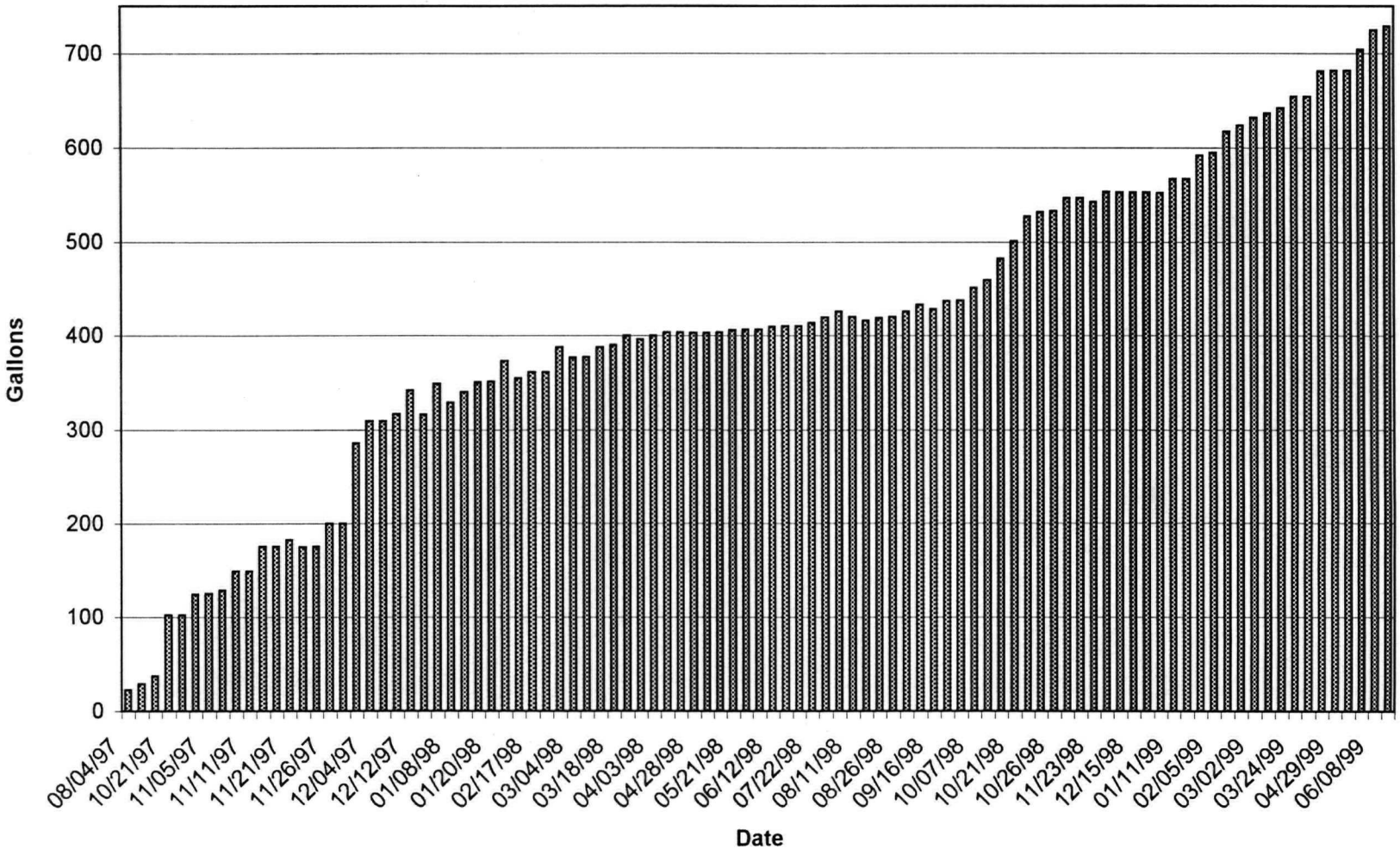
P = product removed with air diaphragm pump

B = bottom skimmer

EB= extended bottom skimmer

Skimwels.xls

Cumulative Product Recovery Since mid-July 1997
Sylvan Slough Removal Action Site, Rock Island, Illinois



Delta
Environmental Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

August 24, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during July/August 1999

- Conducted site visits on July 13, and August 10, 1999, to evaluate system operation.
- Oversaw construction of recovery and monitoring wells in bike path to flush grade.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through July 13, 1999, is shown on the attached graph. Since the system was turned off during some of this period, product recovery was low.

Since the beginning of the year, 176 gallons of product has been recovered on site.

Monthly Operation Summary, Problems Encountered, and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Ground water elevations are influenced by the water elevation of the river. Product collection appears to increase during decreasing or stable water elevations. Water levels remained stable or increased since the July data collection visit.

During the August visit product was measured in ten recovery wells.

Use of the portable diaphragm pump during site visits has increased product recovery.

Work Schedule for August 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

- Reconstruct recovery wells GM-32 and I-1 and monitoring wells I-2 and G-1 as flush grade wells to allow for construction of the bike path.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Ms. Judy McDonough - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultant
Proj. No. A097-130

06/08/1999

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	B	16.55	16.54	0.01	554.59	13.39
GM23D	B	16.28	16.25	0.03	554.61	18.59
GM24S		15.43		0.00	554.86	6.67
GM24D	EB	19.27	16.28	2.99	554.66	12.45
GM25D	EB	17.22	17.21	0.01	554.67	12.37
GM28S		14.60		0.00	556.13	7.25
GM28D		16.06		0.00	554.78	13.89
GM29S		15.40		0.00	555.76	6.62
GM31	B	17.81	16.31	1.50	554.79	16.74
GM32		16.42		0.00	554.60	18.59
RW4		16.23		0.00	554.72	16.52
RW5	T	16.90	16.15	0.75	554.81	16.31
RW6	T	16.28	16.26	0.02	554.69	15.49
RW7		16.29		0.00	554.66	16.76
C2 *		15.85		0.00	555.33	5.25
C3 *	B	10.90	10.74	0.16	556.69	9.49
D1 *		14.91		0.00	556.15	5.30
G3 *		16.56		0.00	554.80	16.50
I1		16.26		0.00	554.58	18.05
J2 *	B	11.48	11.41	0.07	555.07	16.97

07/13/1999

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		20.52		0.00	550.61	9.41
GM23D		20.31		0.00	550.55	14.53
GM24S		19.52		0.00	550.77	2.58
GM24D	EB	20.84	20.37	0.47	550.88	8.67
GM25D	EB	21.27	21.25	0.02	550.63	8.33
GM28S		18.79		0.00	551.94	3.06
GM28D	B	20.97	19.84	1.13	550.86	9.97
GM29S		19.56		0.00	551.60	2.46
GM31	B	21.57	20.43	1.14	550.72	12.67
GM32		20.53		0.00	550.49	14.48
RW4		20.42		0.00	550.53	12.33
RW5	T	20.71	20.45	0.26	550.57	12.07
RW6		20.41		0.00	550.54	11.34
RW7		16.29		0.00	554.66	16.76
C2 *		19.92		0.00	551.26	1.18
C3 *	B	15.12	14.75	0.37	552.65	5.45
D1 *		18.88		0.00	552.18	1.33
G3 *		20.43		0.00	550.93	12.63
I1		20.15		0.00	550.69	14.16
J2 *	B	16.04	16.00	0.04	550.49	12.39

08/10/1999

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		20.25		0.00	550.88	9.68
GM23D	B	20.10	20.06	0.04	550.80	14.78
GM24S		17.81		0.00	552.48	4.29
GM24D	EB	21.23	20.31	0.92	550.89	8.67
GM25D	EB	22.23	20.78	1.45	550.92	8.62
GM28S	EB	17.39	16.49	0.90	554.13	5.25
GM28D		16.48		0.00	554.36	13.47
GM29S		17.43		0.00	553.73	4.59
GM31	B	20.80	20.17	0.63	551.04	12.99
GM32		NM		0.00		
RW4		20.06		0.00	550.89	12.69
RW5	T	20.88	19.85	1.03	551.07	12.57
RW6	T	20.10	20.03	0.07	550.91	11.71
RW7	T	20.14	20.02	0.12	550.92	13.02
C2 *		17.97		0.00	553.21	3.13
C3 *	B	13.25	13.17	0.08	554.27	7.07
D1 *		16.93		0.00	554.13	3.28
G3 *		19.93		0.00	551.43	13.13
I1		NM		0.00		
J2 *	B	16.16	14.52	1.64	551.77	13.67

* = new 4" wells installed over old 2" blocked wells

= wells with operating skimmers after visit

B = bottom skimmer

EB= extended bottom skimmer

T = tidal skimmer

Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
08/04/97						23	23.0	
09/18/97	3.81	3.86	0.05	17.4	11.0	6.3	29.3	37
10/13/97	3.83	4.00	0.17	14.7	0.0	14.7	37.7	100
10/21/97	1.95	2.20	0.25	517.3	437.6	79.7	102.7	15
11/03/97	4.00	4.00	0.00	0.0	0.0	0.0	102.7	
11/04/97	3.08	3.17	0.08	173.3	151.3	22.0	124.7	13
11/05/97	3.00	3.08	0.08	196.0	173.3	22.7	125.4	12
11/07/97	1.75	1.83	0.08	580.9	554.4	26.4	129.1	5
11/10/97	0.25	0.50	0.25	976.5	930.3	46.2	148.9	5
11/11/97	4.00	4.00	0.00	0.0	0.0	0.0	148.9	
11/17/97	2.29	2.38	0.08	408.6	382.3	26.2	175.1	6
11/20/97	2.08	2.17	0.08	474.7	448.2	26.5	175.5	6
11/21/97	1.98	2.08	0.10	508.0	474.7	33.2	182.2	7
11/24/97	1.50	1.58	0.08	659.2	633.3	25.9	174.8	4
11/25/97	1.65	1.73	0.08	613.8	587.5	26.3	175.2	4
11/26/97	1.33	1.50	0.17	710.1	659.2	50.9	199.8	7
11/26/97	4.00	4.00	0.00	0.0	0.0	0.0	199.8	
12/03/97	0.67	1.00	0.33	892.8	806.6	86.2	286.0	10
12/04/97	0.00	0.67	0.67	1002.6	892.8	109.8	309.6	11
12/04/97	3.92	3.92	0.00	5.1	5.1	0.0	309.6	
12/08/97	3.42	3.45	0.03	89.8	82.2	7.5	317.2	8
12/12/97	2.40	2.50	0.10	375.8	343.4	32.4	342.0	9
12/19/97	2.15	2.17	0.02	454.8	448.2	6.6	316.2	1
01/06/98	1.63	1.75	0.13	620.3	580.9	39.4	349.0	6
01/08/98	1.21	1.28	0.07	745.6	726.2	19.4	329.0	3
01/13/98	0.67	0.79	0.13	892.8	862.0	30.8	340.4	3
01/15/98	3.92	3.94	0.02	5.1	3.3	1.8	350.8	35
01/20/98	3.29	3.30	0.01	120.3	117.8	2.4	351.4	2
01/26/98	2.75	2.83	0.08	267.7	243.3	24.4	373.4	9
02/10/98	1.65	1.67	0.02	612.4	606.2	6.3	355.3	1
02/17/98	0.42	0.48	0.06	947.2	934.7	12.6	361.6	1
02/19/98	4.00	4.00	0.00	0.0	0.0	0.0	361.6	
02/26/98	2.33	2.42	0.08	395.4	369.3	26.1	387.7	7
03/04/98	1.35	1.40	0.05	705.0	689.9	15.2	376.7	2
03/09/98	0.33	0.42	0.08	962.7	947.2	15.5	377.1	2
03/10/98	4.00	4.00	0.00	0.0	0.0	0.0	387.7	
03/18/98	3.33	3.34	0.01	110.6	108.3	2.4	390.1	2
03/26/98	1.72	1.76	0.04	590.4	577.7	12.7	400.4	2
04/03/98	0.01	0.12	0.11	1002.4	993.9	8.6	396.3	1
04/03/98	4.00	4.00	0.00	0.0	0.0	0.0	400.4	
04/08/98	3.66	3.68	0.02	41.1	37.6	3.5	403.9	9
04/17/98	1.55	1.56	0.01	643.7	640.6	3.1	403.5	0
04/28/98	1.14	1.15	0.01	767.1	764.2	2.9	403.3	0
05/07/98	0.83	0.84	0.01	852.2	849.6	2.6	403.0	0
05/14/98	4.00	4.00	0.00	0.0	0.0	0.0	403.9	
05/21/98	3.46	3.47	0.01	80.9	78.7	2.2	406.1	3
06/03/98	3.10	3.11	0.01	168.9	166.2	2.7	406.5	2
06/08/98	3.07	3.08	0.01	176.9	174.2	2.7	406.6	2
06/12/98	3.05	3.07	0.02	182.3	176.9	5.4	409.3	3
06/25/98	2.66	2.68	0.02	294.6	288.6	6.0	409.9	2
07/14/98	1.97	1.99	0.02	510.9	504.5	6.4	410.3	1
07/22/98	1.87	1.90	0.03	542.8	533.2	9.6	413.4	2
07/23/98	1.86	1.91	0.05	546.0	530.0	15.9	419.8	3

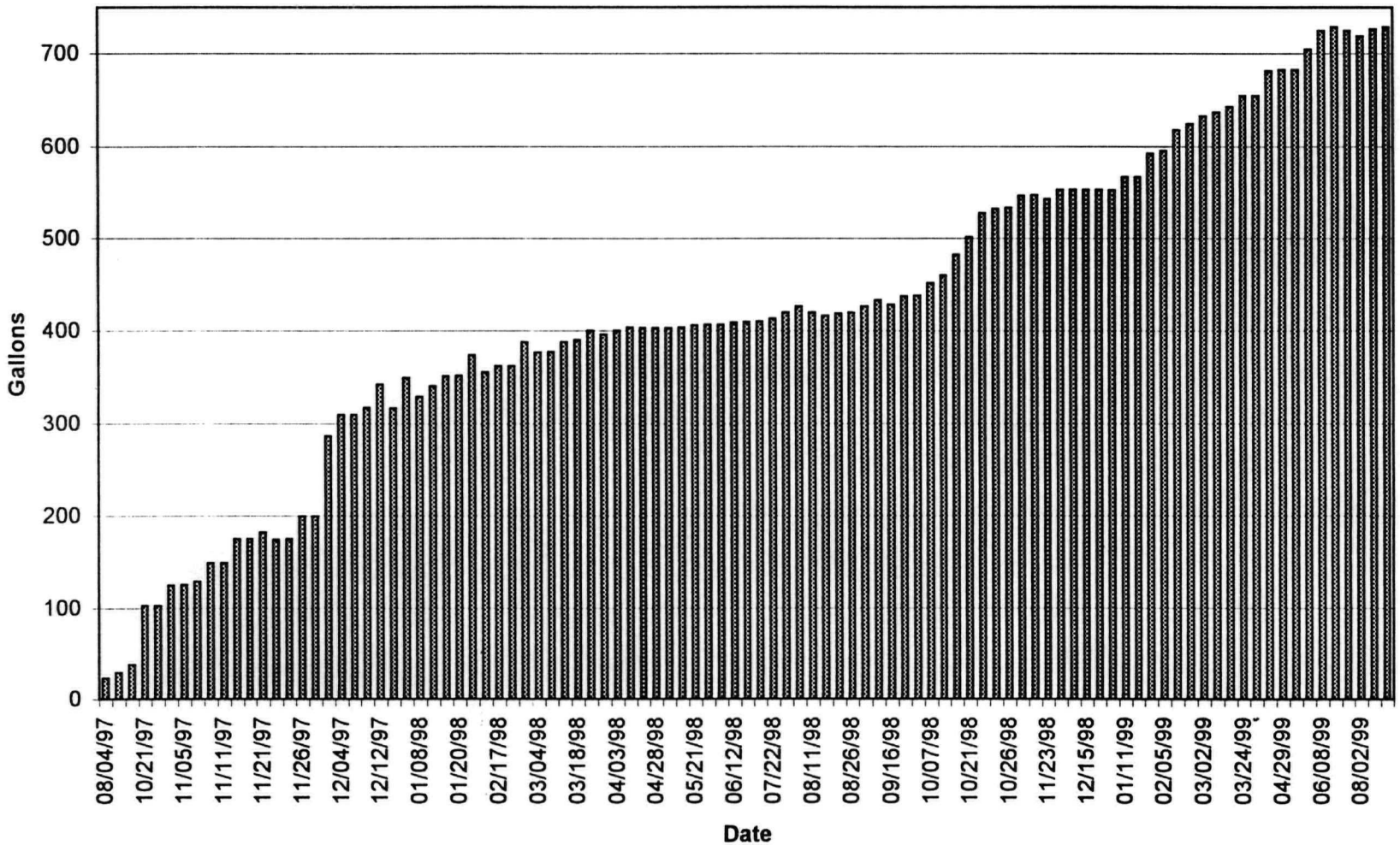
Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
07/30/98	1.85	1.92	0.07	549.1	526.8	22.3	426.2	4
08/11/98	1.89	1.94	0.05	536.4	520.5	15.9	419.8	3
08/17/98	1.45	1.49	0.04	674.6	662.3	12.3	416.2	2
08/19/98	1.25	1.30	0.05	734.9	720.1	14.9	418.8	2
08/26/98	0.90	0.96	0.06	833.8	817.6	16.2	420.1	2
08/31/98	4.00	4.00	0.00	0.0	0.0	0.0	426.2	
09/14/98	3.90	4.00	0.10	6.7	0.0	6.7	432.9	100
09/16/98	3.61	3.62	0.01	50.3	48.4	1.9	428.1	4
09/22/98	3.00	3.04	0.04	196.0	185.0	11.0	437.2	6
09/30/98	2.83	2.87	0.04	244.2	232.7	11.6	437.7	5
10/07/98	2.25	2.33	0.08	421.7	396.5	25.3	451.4	6
10/13/98	1.96	2.06	0.10	514.6	481.4	33.2	459.4	6
10/19/98	1.19	1.38	0.19	753.3	697.5	55.8	482.0	7
10/21/98	0.67	0.96	0.29	892.8	818.0	74.7	500.9	8
10/23/98	0.50	0.92	0.42	930.3	829.3	101.0	527.2	11
10/23/98	3.92	4.00	0.08	5.1	0.0	5.1	532.2	100
10/26/98	2.67	2.69	0.02	292.6	286.3	6.3	533.4	2
11/05/98	2.50	2.56	0.06	343.4	324.2	19.2	546.4	6
11/18/98	1.71	1.77	0.06	594.1	574.3	19.8	546.9	3
11/23/98	1.54	1.59	0.05	646.8	631.2	15.6	542.7	2
11/30/98	1.46	1.54	0.08	672.0	646.3	25.7	552.9	4
12/07/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/15/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/23/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
01/05/99	1.29	1.38	0.08	722.6	697.5	25.1	552.2	3
01/11/99	0.85	1.00	0.15	845.9	806.6	39.3	566.4	5
01/14/99	4.00	4.00	0.00	0.0	0.0	0.0	566.4	
01/22/99	3.67	3.83	0.17	39.9	14.3	25.6	592.0	64
02/05/99	2.84	2.94	0.10	241.3	212.8	28.6	595.0	12
02/15/99	2.46	2.63	0.17	356.3	305.1	51.2	617.6	14
02/16/99	2.44	2.63	0.19	362.8	305.1	57.7	624.1	16
03/02/99	1.67	1.88	0.21	607.2	541.2	66.0	632.4	11
03/19/99	1.33	1.56	0.23	710.1	639.8	70.3	636.7	10
03/23/99	1.27	1.52	0.25	728.8	652.8	76.0	642.4	10
03/24/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/12/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/20/99	0.79	1.21	0.42	862.0	747.2	114.8	681.2	13
04/29/99	0.17	0.75	0.58	988.3	872.5	115.8	682.2	12
04/30/99	4.00	4.00	0.00	0.0	0.0	0.0	682.2	
04/29/99	3.44	3.54	0.10	85.9	63.7	22.2	704.4	26
06/08/99	2.41	2.54	0.14	372.9	330.6	42.4	724.6	11
07/13/99	2.00	2.15	0.15	501.3	454.8	46.5	728.7	9

Cumulative Product Recovery Since mid-July 1997
Sylvan Slough Removal Action Site, Rock Island, Illinois



Delta
Environmental Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

September 21, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during August/September 1999

- Conducted site visits on August 10 and September 9, 1999, to evaluate system operation.
- Oversaw construction of recovery and monitoring wells in bike path to flush grade.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through September 9, 1999, is shown on the attached graph.

Since the beginning of the year, 200 gallons of product has been recovered on site.

Monthly Operation Summary, Problems Encountered, and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Ground water elevations are influenced by the water elevation of the river. Product collection appears to increase during decreasing or stable water elevations. Water levels decreased since the August data collection visit.

During the August visit product was measured in ten recovery wells.

Use of the portable diaphragm pump during site visits has increased product recovery.

Work Schedule for September 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

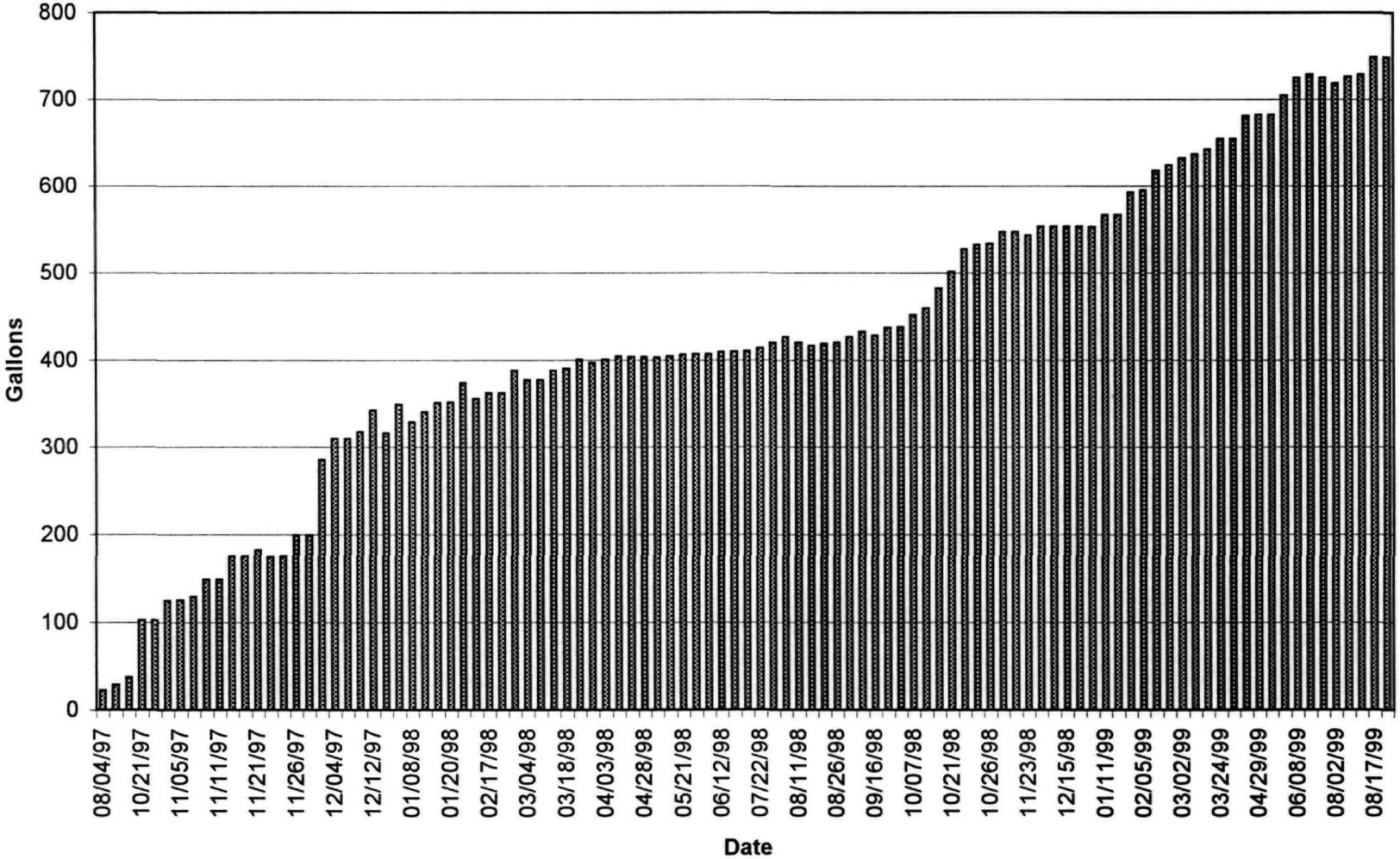
Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Ms. Judy McDonough - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Cumulative Product Recovery Since mid-July 1997
Sylvan Slough Removal Action Site, Rock Island, Illinois



Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

07/13/1999

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		20.52		0.00	550.61	9.41
GM23D		20.31		0.00	550.55	14.53
GM24S		19.52		0.00	550.77	2.58
GM24D	EB	20.84	20.37	0.47	550.88	8.67
GM25D	EB	21.27	21.25	0.02	550.63	8.33
GM28S		18.79		0.00	551.94	3.06
GM28D	B	20.97	19.84	1.13	550.86	9.97
GM29S		19.56		0.00	551.60	2.46
GM31	B	21.57	20.43	1.14	550.72	12.67
GM32		20.53		0.00	550.49	14.48
RW4		20.42		0.00	550.53	12.33
RW5	T	20.71	20.45	0.26	550.57	12.07
RW6		20.41		0.00	550.54	11.34
RW7		16.29		0.00	554.66	16.76
C2 *		19.92		0.00	551.26	1.18
C3 *	B	15.12	14.75	0.37	552.65	5.45
D1 *		18.88		0.00	552.18	1.33
G3 *		20.43		0.00	550.93	12.63
I1		20.15		0.00	550.69	14.16
J2 *	B	16.04	16.00	0.04	550.49	12.39

08/10/1999

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		20.25		0.00	550.88	9.68
GM23D	B	20.10	20.06	0.04	550.80	14.78
GM24S		17.81		0.00	552.48	4.29
GM24D	EB	21.23	20.31	0.92	550.89	8.67
GM25D	EB	22.23	20.78	1.45	550.92	8.62
GM28S	EB	17.39	16.49	0.90	554.13	5.25
GM28D		16.48		0.00	554.36	13.47
GM29S		17.43		0.00	553.73	4.59
GM31	B	20.80	20.17	0.63	551.04	12.99
GM32		NM		0.00		
RW4		20.06		0.00	550.89	12.69
RW5	T	20.88	19.85	1.03	551.07	12.57
RW6	T	20.10	20.03	0.07	550.91	11.71
RW7	T	20.14	20.02	0.12	550.92	13.02
C2 *		17.97		0.00	553.21	3.13
C3 *	B	13.25	13.17	0.08	554.27	7.07
D1 *		16.93		0.00	554.13	3.28
G3 *		19.93		0.00	551.43	13.13
I1		NM		0.00		
J2 *	B	16.16	14.52	1.64	551.77	13.67

09/08/1999

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		24.14		0.00	546.99	5.79
GM23D	B	22.79	22.69	0.10	548.16	12.14
GM24S		19.83		0.00	550.46	2.27
GM24D	EB	24.46	23.15	1.31	548.00	5.79
GM25D	EB	24.62	22.85	1.77	548.81	6.51
GM28S	EB	18.17	17.47	0.70	553.17	4.29
GM28D		21.95		0.00	548.89	8.00
GM29S		18.39		0.00	552.77	3.63
GM31	B	23.23	22.64	0.59	548.58	10.53
GM32		20.56		0.00	547.16	11.15
RW4		23.04		0.00	547.91	9.71
RW5	T	22.97	22.80	0.17	548.23	9.73
RW6	T	23.06	22.91	0.15	548.02	8.82
RW7	T	23.01	22.99	0.02	547.96	10.06
C2 *		19.45		0.00	551.73	1.65
C3 *		15.59		0.00	551.86	4.66
D1 *		17.67		0.00	553.39	2.54
G3 *		22.84		0.00	548.52	10.22
I1		20.89		0.00	546.85	10.32
J2 *	B	17.52	17.09	0.43	549.35	11.25

* = new 4" wells installed over old 2" blocked wells

= wells with operating skimmers after visit

B = bottom skimmer

EB= extended bottom skimmer

T = tidal skimmer

RW's GM-32 and RW-I1 converted to flush grade wells on 08/11/1999 to accommodate bike path

Skimwells

Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
08/04/97						23	23.0	
09/18/97	3.81	3.86	0.05	17.4	11.0	6.3	29.3	37
10/13/97	3.83	4.00	0.17	14.7	0.0	14.7	37.7	100
10/21/97	1.95	2.20	0.25	517.3	437.6	79.7	102.7	15
11/03/97	4.00	4.00	0.00	0.0	0.0	0.0	102.7	
11/04/97	3.08	3.17	0.08	173.3	151.3	22.0	124.7	13
11/05/97	3.00	3.08	0.08	196.0	173.3	22.7	125.4	12
11/07/97	1.75	1.83	0.08	580.9	554.4	26.4	129.1	5
11/10/97	0.25	0.50	0.25	976.5	930.3	46.2	148.9	5
11/11/97	4.00	4.00	0.00	0.0	0.0	0.0	148.9	
11/17/97	2.29	2.38	0.08	408.6	382.3	26.2	175.1	6
11/20/97	2.08	2.17	0.08	474.7	448.2	26.5	175.5	6
11/21/97	1.98	2.08	0.10	508.0	474.7	33.2	182.2	7
11/24/97	1.50	1.58	0.08	659.2	633.3	25.9	174.8	4
11/25/97	1.65	1.73	0.08	613.8	587.5	26.3	175.2	4
11/26/97	1.33	1.50	0.17	710.1	659.2	50.9	199.8	7
11/26/97	4.00	4.00	0.00	0.0	0.0	0.0	199.8	
12/03/97	0.67	1.00	0.33	892.8	806.6	86.2	286.0	10
12/04/97	0.00	0.67	0.67	1002.6	892.8	109.8	309.6	11
12/04/97	3.92	3.92	0.00	5.1	5.1	0.0	309.6	
12/08/97	3.42	3.45	0.03	89.8	82.2	7.5	317.2	8
12/12/97	2.40	2.50	0.10	375.8	343.4	32.4	342.0	9
12/19/97	2.15	2.17	0.02	454.8	448.2	6.6	316.2	1
01/06/98	1.63	1.75	0.13	620.3	580.9	39.4	349.0	6
01/08/98	1.21	1.28	0.07	745.6	726.2	19.4	329.0	3
01/13/98	0.67	0.79	0.13	892.8	862.0	30.8	340.4	3
01/15/98	3.92	3.94	0.02	5.1	3.3	1.8	350.8	35
01/20/98	3.29	3.30	0.01	120.3	117.8	2.4	351.4	2
01/26/98	2.75	2.83	0.08	267.7	243.3	24.4	373.4	9
02/10/98	1.65	1.67	0.02	612.4	606.2	6.3	355.3	1
02/17/98	0.42	0.48	0.06	947.2	934.7	12.6	361.6	1
02/19/98	4.00	4.00	0.00	0.0	0.0	0.0	361.6	
02/26/98	2.33	2.42	0.08	395.4	369.3	26.1	387.7	7
03/04/98	1.35	1.40	0.05	705.0	689.9	15.2	376.7	2
03/09/98	0.33	0.42	0.08	962.7	947.2	15.5	377.1	2
03/10/98	4.00	4.00	0.00	0.0	0.0	0.0	387.7	
03/18/98	3.33	3.34	0.01	110.6	108.3	2.4	390.1	2
03/26/98	1.72	1.76	0.04	590.4	577.7	12.7	400.4	2
04/03/98	0.01	0.12	0.11	1002.4	993.9	8.6	396.3	1
04/03/98	4.00	4.00	0.00	0.0	0.0	0.0	400.4	
04/08/98	3.66	3.68	0.02	41.1	37.6	3.5	403.9	9
04/17/98	1.55	1.56	0.01	643.7	640.6	3.1	403.5	0
04/28/98	1.14	1.15	0.01	767.1	764.2	2.9	403.3	0
05/07/98	0.83	0.84	0.01	852.2	849.6	2.6	403.0	0
05/14/98	4.00	4.00	0.00	0.0	0.0	0.0	403.9	
05/21/98	3.46	3.47	0.01	80.9	78.7	2.2	406.1	3
06/03/98	3.10	3.11	0.01	168.9	166.2	2.7	406.5	2
06/08/98	3.07	3.08	0.01	176.9	174.2	2.7	406.6	2
06/12/98	3.05	3.07	0.02	182.3	176.9	5.4	409.3	3
06/25/98	2.66	2.68	0.02	294.6	288.6	6.0	409.9	2
07/14/98	1.97	1.99	0.02	510.9	504.5	6.4	410.3	1
07/22/98	1.87	1.90	0.03	542.8	533.2	9.6	413.4	2
07/23/98	1.86	1.91	0.05	546.0	530.0	15.9	419.8	3
07/30/98	1.85	1.92	0.07	549.1	526.8	22.3	426.2	4
08/11/98	1.89	1.94	0.05	536.4	520.5	15.9	419.8	3
08/17/98	1.45	1.49	0.04	674.6	662.3	12.3	416.2	2

Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
08/19/98	1.25	1.30	0.05	734.9	720.1	14.9	418.8	2
08/26/98	0.90	0.96	0.06	833.8	817.6	16.2	420.1	2
08/31/98	4.00	4.00	0.00	0.0	0.0	0.0	426.2	
09/14/98	3.90	4.00	0.10	6.7	0.0	6.7	432.9	100
09/16/98	3.61	3.62	0.01	50.3	48.4	1.9	428.1	4
09/22/98	3.00	3.04	0.04	196.0	185.0	11.0	437.2	6
09/30/98	2.83	2.87	0.04	244.2	232.7	11.6	437.7	5
10/07/98	2.25	2.33	0.08	421.7	396.5	25.3	451.4	6
10/13/98	1.96	2.06	0.10	514.6	481.4	33.2	459.4	6
10/19/98	1.19	1.38	0.19	753.3	697.5	55.8	482.0	7
10/21/98	0.67	0.96	0.29	892.8	818.0	74.7	500.9	8
10/23/98	0.50	0.92	0.42	930.3	829.3	101.0	527.2	11
10/23/98	3.92	4.00	0.08	5.1	0.0	5.1	532.2	100
10/26/98	2.67	2.69	0.02	292.6	286.3	6.3	533.4	2
11/05/98	2.50	2.56	0.06	343.4	324.2	19.2	546.4	6
11/18/98	1.71	1.77	0.06	594.1	574.3	19.8	546.9	3
11/23/98	1.54	1.59	0.05	646.8	631.2	15.6	542.7	2
11/30/98	1.46	1.54	0.08	672.0	646.3	25.7	552.9	4
12/07/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/15/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/23/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
01/05/99	1.29	1.38	0.08	722.6	697.5	25.1	552.2	3
01/11/99	0.85	1.00	0.15	845.9	806.6	39.3	566.4	5
01/14/99	4.00	4.00	0.00	0.0	0.0	0.0	566.4	
01/22/99	3.67	3.83	0.17	39.9	14.3	25.6	592.0	64
02/05/99	2.84	2.94	0.10	241.3	212.8	28.6	595.0	12
02/15/99	2.46	2.63	0.17	356.3	305.1	51.2	617.6	14
02/16/99	2.44	2.63	0.19	362.8	305.1	57.7	624.1	16
03/02/99	1.67	1.88	0.21	607.2	541.2	66.0	632.4	11
03/19/99	1.33	1.56	0.23	710.1	639.8	70.3	636.7	10
03/23/99	1.27	1.52	0.25	728.8	652.8	76.0	642.4	10
03/24/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/12/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/20/99	0.79	1.21	0.42	862.0	747.2	114.8	681.2	13
04/29/99	0.17	0.75	0.58	988.3	872.5	115.8	682.2	12
04/30/99	4.00	4.00	0.00	0.0	0.0	0.0	682.2	
04/29/99	3.44	3.54	0.10	85.9	63.7	22.2	704.4	26
06/08/99	2.41	2.54	0.14	372.9	330.6	42.4	724.6	11
07/13/99	2.00	2.15	0.15	501.3	454.8	46.5	728.7	9
07/26/99	1.08	1.23	0.15	783.3	741.1	42.2	724.4	5
08/02/99	0.46	0.63	0.17	938.9	902.6	36.4	718.6	4
08/10/99	0.21	0.46	0.25	982.7	938.9	43.8	726.0	4
08/12/99	4.00	4.00	0.00	0.0	0.0	0.0	728.7	
08/17/99	3.29	3.38	0.08	119.9	100.1	19.8	748.5	17
09/08/99	3.29	3.38	0.08	119.9	100.1	19.8	748.5	17
09/15/99	3.13	3.21	0.08	162.2	140.6	21.6	750.3	13

Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

October 19, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during September/October 1999

- Conducted site visits on September 8 and October 5, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through October 5, 1999, is shown on the attached graph.

Since the beginning of the year, 220 gallons of product has been recovered on site.

Monthly Operation Summary, Problems Encountered, and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Ground water elevations are influenced by the water elevation of the river. Product collection appears to increase during decreasing or stable water elevations. Water levels decreased since the August data collection visit.

During the September and October visits product was measured in nine and twelve recovery wells, respectively.

Use of the portable diaphragm pump during site visits has increased product recovery.

Work Schedule for October 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Ms. Judy McDonough - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

8/10/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		20.25		0.00	550.88	9.68
GM23D	B	20.10	20.06	0.04	550.80	14.78
GM24S		17.81		0.00	552.48	4.29
GM24D	EB	21.23	20.31	0.92	550.89	8.67
GM25D	EB	22.23	20.78	1.45	550.92	8.62
GM28S	EB	17.39	16.49	0.90	554.13	5.25
GM28D		16.48		0.00	554.36	13.47
GM29S		17.43		0.00	553.73	4.59
GM31	B	20.80	20.17	0.63	551.04	12.99
GM32		NM		0.00		
RW4		20.06		0.00	550.89	12.69
RW5	T	20.88	19.85	1.03	551.07	12.57
RW6	T	20.10	20.03	0.07	550.91	11.71
RW7	T	20.14	20.02	0.12	550.92	13.02
C2 *		17.97		0.00	553.21	3.13
C3 *	B	13.25	13.17	0.08	554.27	7.07
D1 *		16.93		0.00	554.13	3.28
G3 *		19.93		0.00	551.43	13.13
I1		NM		0.00		
J2 *	B	16.16	14.52	1.64	551.77	13.67

9/8/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		24.14		0.00	546.99	5.79
GM23D	B	22.79	22.69	0.10	548.16	12.14
GM24S		19.83		0.00	550.46	2.27
GM24D	EB	24.46	23.15	1.31	548.00	5.79
GM25D	EB	24.62	22.85	1.77	548.81	6.51
GM28S	EB	18.17	17.47	0.70	553.17	4.29
GM28D		21.95		0.00	548.89	8.00
GM29S		18.39		0.00	552.77	3.63
GM31	B	23.23	22.64	0.59	548.58	10.53
GM32		20.56		0.00	547.16	11.15
RW4		23.04		0.00	547.91	9.71
RW5	T	22.97	22.80	0.17	548.23	9.73
RW6	T	23.06	22.91	0.15	548.02	8.82
RW7	T	23.01	22.99	0.02	547.96	10.06
C2 *		19.45		0.00	551.73	1.65
C3 *		15.59		0.00	551.86	4.66
D1 *		17.67		0.00	553.39	2.54
G3 *		22.84		0.00	548.52	10.22
I1		20.89		0.00	546.85	10.32
J2 *	B	17.52	17.09	0.43	549.35	11.25

10/5/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	EB	25.55	22.69	2.86	548.08	6.88
GM23D		22.60		0.00	548.26	12.24
GM24S	EB	20.05	19.57	0.48	550.66	2.47
GM24D	EB	23.06	23.05	0.01	548.26	6.05
GM25D	EB	23.61		0.00	548.27	5.97
GM28S	EB	18.40	17.75	0.65	552.90	4.02
GM28D		22.31		0.00	548.53	7.64
GM29S		18.39		0.00	552.77	3.63
GM31	B	23.61	22.91	0.70	548.29	10.24
GM32	B	18.93	18.77	0.16	548.93	12.92
RW4		22.81		0.00	548.14	9.94
RW5	T	23.10	22.65	0.45	548.34	9.84
RW6	T	22.88	22.78	0.10	548.16	8.96
RW7		22.75		0.00	548.20	10.30
C2 *	EB	19.90	19.74	0.16	551.42	1.34
C3 *	B	15.55	15.41	0.14	552.02	4.82
D1 *		18.10		0.00	552.96	2.11
G3 *		21.82	21.81	0.01	549.55	11.25
I1		18.61		0.00	549.13	12.60
J2 *	B	17.22	17.18	0.04	549.31	11.21

* = new 4" wells installed over old 2" blocked wells

= wells with operating skimmers after visit

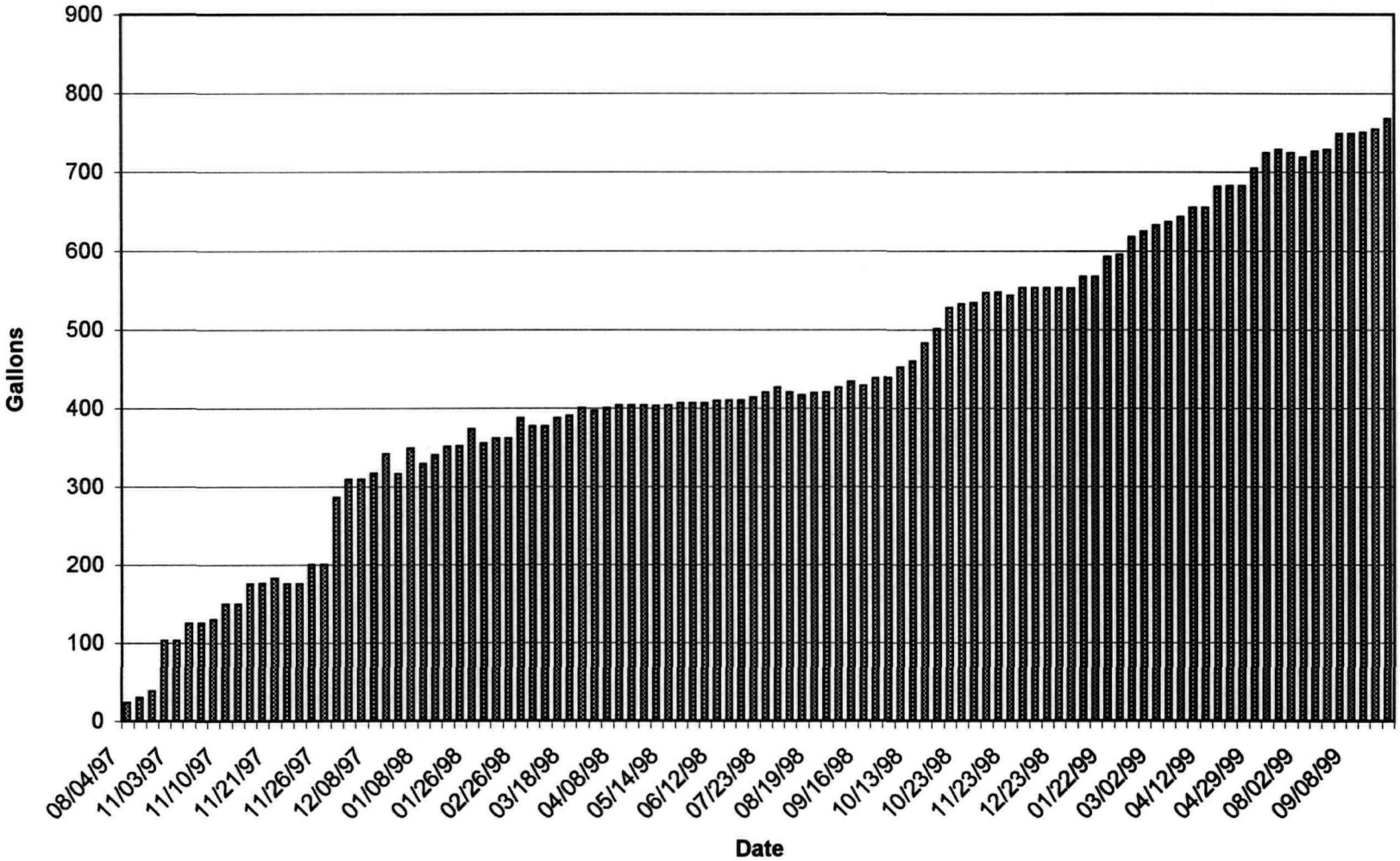
B = bottom skimmer

EB= extended bottom skimmer

T = tidal skimmer

RW's GM-32 and RW-I1 converted to flush grade wells on 08/11/1999 to accommodate bike path

Cumulative Product Recovery Since mid-July 1997
Sylvan Slough Removal Action Site, Rock Island, Illinois



Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
08/04/97						23	23.0	
09/18/97	3.81	3.86	0.05	17.4	11.0	6.3	29.3	37
10/13/97	3.83	4.00	0.17	14.7	0.0	14.7	37.7	100
10/21/97	1.95	2.20	0.25	517.3	437.6	79.7	102.7	15
11/03/97	4.00	4.00	0.00	0.0	0.0	0.0	102.7	
11/04/97	3.08	3.17	0.08	173.3	151.3	22.0	124.7	13
11/05/97	3.00	3.08	0.08	196.0	173.3	22.7	125.4	12
11/07/97	1.75	1.83	0.08	580.9	554.4	26.4	129.1	5
11/10/97	0.25	0.50	0.25	976.5	930.3	46.2	148.9	5
11/11/97	4.00	4.00	0.00	0.0	0.0	0.0	148.9	
11/17/97	2.29	2.38	0.08	408.6	382.3	26.2	175.1	6
11/20/97	2.08	2.17	0.08	474.7	448.2	26.5	175.5	6
11/21/97	1.98	2.08	0.10	508.0	474.7	33.2	182.2	7
11/24/97	1.50	1.58	0.08	659.2	633.3	25.9	174.8	4
11/25/97	1.65	1.73	0.08	613.8	587.5	26.3	175.2	4
11/26/97	1.33	1.50	0.17	710.1	659.2	50.9	199.8	7
11/26/97	4.00	4.00	0.00	0.0	0.0	0.0	199.8	
12/03/97	0.67	1.00	0.33	892.8	806.6	86.2	286.0	10
12/04/97	0.00	0.67	0.67	1002.6	892.8	109.8	309.6	11
12/04/97	3.92	3.92	0.00	5.1	5.1	0.0	309.6	
12/08/97	3.42	3.45	0.03	89.8	82.2	7.5	317.2	8
12/12/97	2.40	2.50	0.10	375.8	343.4	32.4	342.0	9
12/19/97	2.15	2.17	0.02	454.8	448.2	6.6	316.2	1
01/06/98	1.63	1.75	0.13	620.3	580.9	39.4	349.0	6
01/08/98	1.21	1.28	0.07	745.6	726.2	19.4	329.0	3
01/13/98	0.67	0.79	0.13	892.8	862.0	30.8	340.4	3
01/15/98	3.92	3.94	0.02	5.1	3.3	1.8	350.8	35
01/20/98	3.29	3.30	0.01	120.3	117.8	2.4	351.4	2
01/26/98	2.75	2.83	0.08	267.7	243.3	24.4	373.4	9
02/10/98	1.65	1.67	0.02	612.4	606.2	6.3	355.3	1
02/17/98	0.42	0.48	0.06	947.2	934.7	12.6	361.6	1
02/19/98	4.00	4.00	0.00	0.0	0.0	0.0	361.6	
02/26/98	2.33	2.42	0.08	395.4	369.3	26.1	387.7	7
03/04/98	1.35	1.40	0.05	705.0	689.9	15.2	376.7	2
03/09/98	0.33	0.42	0.08	962.7	947.2	15.5	377.1	2
03/10/98	4.00	4.00	0.00	0.0	0.0	0.0	387.7	
03/18/98	3.33	3.34	0.01	110.6	108.3	2.4	390.1	2
03/26/98	1.72	1.76	0.04	590.4	577.7	12.7	400.4	2
04/03/98	0.01	0.12	0.11	1002.4	993.9	8.6	396.3	1
04/03/98	4.00	4.00	0.00	0.0	0.0	0.0	400.4	
04/08/98	3.66	3.68	0.02	41.1	37.6	3.5	403.9	9
04/17/98	1.55	1.56	0.01	643.7	640.6	3.1	403.5	0
04/28/98	1.14	1.15	0.01	767.1	764.2	2.9	403.3	0
05/07/98	0.83	0.84	0.01	852.2	849.6	2.6	403.0	0
05/14/98	4.00	4.00	0.00	0.0	0.0	0.0	403.9	
05/21/98	3.46	3.47	0.01	80.9	78.7	2.2	406.1	3
06/03/98	3.10	3.11	0.01	168.9	166.2	2.7	406.5	2
06/08/98	3.07	3.08	0.01	176.9	174.2	2.7	406.6	2
06/12/98	3.05	3.07	0.02	182.3	176.9	5.4	409.3	3
06/25/98	2.66	2.68	0.02	294.6	288.6	6.0	409.9	2
07/14/98	1.97	1.99	0.02	510.9	504.5	6.4	410.3	1
07/22/98	1.87	1.90	0.03	542.8	533.2	9.6	413.4	2
07/23/98	1.86	1.91	0.05	546.0	530.0	15.9	419.8	3
07/30/98	1.85	1.92	0.07	549.1	526.8	22.3	426.2	4
08/11/98	1.89	1.94	0.05	536.4	520.5	15.9	419.8	3
08/17/98	1.45	1.49	0.04	674.6	662.3	12.3	416.2	2
08/19/98	1.25	1.30	0.05	734.9	720.1	14.9	418.8	2
08/26/98	0.90	0.96	0.06	833.8	817.6	16.2	420.1	2
08/31/98	4.00	4.00	0.00	0.0	0.0	0.0	426.2	
09/14/98	3.90	4.00	0.10	6.7	0.0	6.7	432.9	100
09/16/98	3.61	3.62	0.01	50.3	48.4	1.9	428.1	4

Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
09/22/98	3.00	3.04	0.04	196.0	185.0	11.0	437.2	6
09/30/98	2.83	2.87	0.04	244.2	232.7	11.6	437.7	5
10/07/98	2.25	2.33	0.08	421.7	396.5	25.3	451.4	6
10/13/98	1.96	2.06	0.10	514.6	481.4	33.2	459.4	6
10/19/98	1.19	1.38	0.19	753.3	697.5	55.8	482.0	7
10/21/98	0.67	0.96	0.29	892.8	818.0	74.7	500.9	8
10/23/98	0.50	0.92	0.42	930.3	829.3	101.0	527.2	11
10/23/98	3.92	4.00	0.08	5.1	0.0	5.1	532.2	100
10/26/98	2.67	2.69	0.02	292.6	286.3	6.3	533.4	2
11/05/98	2.50	2.56	0.06	343.4	324.2	19.2	546.4	6
11/18/98	1.71	1.77	0.06	594.1	574.3	19.8	546.9	3
11/23/98	1.54	1.59	0.05	646.8	631.2	15.6	542.7	2
11/30/98	1.46	1.54	0.08	672.0	646.3	25.7	552.9	4
12/07/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/15/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/23/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
01/05/99	1.29	1.38	0.08	722.6	697.5	25.1	552.2	3
01/11/99	0.85	1.00	0.15	845.9	806.6	39.3	566.4	5
01/14/99	4.00	4.00	0.00	0.0	0.0	0.0	566.4	
01/22/99	3.67	3.83	0.17	39.9	14.3	25.6	592.0	64
02/05/99	2.84	2.94	0.10	241.3	212.8	28.6	595.0	12
02/15/99	2.46	2.63	0.17	356.3	305.1	51.2	617.6	14
02/16/99	2.44	2.63	0.19	362.8	305.1	57.7	624.1	16
03/02/99	1.67	1.88	0.21	607.2	541.2	66.0	632.4	11
03/19/99	1.33	1.56	0.23	710.1	639.8	70.3	636.7	10
03/23/99	1.27	1.52	0.25	728.8	652.8	76.0	642.4	10
03/24/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/12/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/20/99	0.79	1.21	0.42	862.0	747.2	114.8	681.2	13
04/29/99	0.17	0.75	0.58	988.3	872.5	115.8	682.2	12
04/30/99	4.00	4.00	0.00	0.0	0.0	0.0	682.2	
04/29/99	3.44	3.54	0.10	85.9	63.7	22.2	704.4	26
06/08/99	2.41	2.54	0.14	372.9	330.6	42.4	724.6	11
07/13/99	2.00	2.15	0.15	501.3	454.8	46.5	728.7	9
07/26/99	1.08	1.23	0.15	783.3	741.1	42.2	724.4	5
08/02/99	0.46	0.63	0.17	938.9	902.6	36.4	718.6	4
08/10/99	0.21	0.46	0.25	982.7	938.9	43.8	726.0	4
08/12/99	4.00	4.00	0.00	0.0	0.0	0.0	728.7	
08/17/99	3.29	3.38	0.08	119.9	100.1	19.8	748.5	17
09/08/99	3.29	3.38	0.08	119.9	100.1	19.8	748.5	17
09/15/99	3.13	3.21	0.08	162.2	140.6	21.6	750.3	13
09/22/99	2.54	2.63	0.08	330.6	305.1	25.4	754.1	8
10/05/99	1.63	1.75	0.13	620.3	580.9	39.4	768.1	6
10/12/99	1.17	1.29	0.13	759.4	722.6	36.8	765.5	5
10/18/99	0.79	0.96	0.17	862.0	818.0	44.0	772.7	5

Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

November 24, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during October/November 1999

- Conducted site visits on October 5, and November 2, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through October 5, 1999, is shown on the attached graph.

Since the beginning of the year, 220 gallons of product has been recovered on site.

Monthly Operation Summary, Problems Encountered, and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Ground water elevations are influenced by the water elevation of the river. Product collection appears to increase during decreasing or stable water elevations. Water levels decreased since the August data collection visit.

During the September and October visits, product was measured in twelve and ten recovery wells, respectively.

Use of the portable diaphragm pump during site visits has increased product recovery.

Work Schedule for November 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance. Remove boom in slough.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Mr. Gregory Jeffries - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

9/8/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		24.14		0.00	546.99	5.79
GM23D	B	22.79	22.69	0.10	548.16	12.14
GM24S		19.83		0.00	550.46	2.27
GM24D	EB	24.46	23.15	1.31	548.00	5.79
GM25D	EB	24.62	22.85	1.77	548.81	6.51
GM28S	EB	18.17	17.47	0.70	553.17	4.29
GM28D		21.95		0.00	548.89	8.00
GM29S		18.39		0.00	552.77	3.63
GM31	B	23.23	22.64	0.59	548.58	10.53
GM32		20.56		0.00	547.16	11.15
RW4		23.04		0.00	547.91	9.71
RW5	T	22.97	22.80	0.17	548.23	9.73
RW6	T	23.06	22.91	0.15	548.02	8.82
RW7	T	23.01	22.99	0.02	547.96	10.06
C2 *		19.45		0.00	551.73	1.65
C3 *		15.59		0.00	551.86	4.66
D1 *		17.67		0.00	553.39	2.54
G3 *		22.84		0.00	548.52	10.22
I1		20.89		0.00	546.85	10.32
J2 *	B	17.52	17.09	0.43	549.35	11.25

10/5/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	EB	25.55	22.69	2.86	548.08	6.88
GM23D		22.60		0.00	548.26	12.24
GM24S	EB	20.05	19.57	0.48	550.66	2.47
GM24D	EB	23.06	23.05	0.01	548.26	6.05
GM25D	EB	23.61		0.00	548.27	5.97
GM28S	EB	18.40	17.75	0.65	552.90	4.02
GM28D		22.31		0.00	548.53	7.64
GM29S		18.39		0.00	552.77	3.63
GM31	B	23.61	22.91	0.70	548.29	10.24
GM32	B	18.93	18.77	0.16	548.93	12.92
RW4		22.81		0.00	548.14	9.94
RW5	T	23.10	22.65	0.45	548.34	9.84
RW6	T	22.88	22.78	0.10	548.16	8.96
RW7		22.75		0.00	548.20	10.30
C2 *	EB	19.90	19.74	0.16	551.42	1.34
C3 *	B	15.55	15.41	0.14	552.02	4.82
D1 *		18.10		0.00	552.96	2.11
G3 *		21.82	21.81	0.01	549.55	11.25
I1		18.61		0.00	549.13	12.60
J2 *	B	17.22	17.18	0.04	549.31	11.21

11/2/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		23.21		0.00	547.92	6.72
GM23D		22.91		0.00	547.95	11.93
GM24S	EB	20.50	20.00	0.50	550.23	2.04
GM24D	EB	23.89	23.19	0.70	548.03	5.82
GM25D	EB	24.20		0.00	547.68	5.38
GM28S	EB	18.25	18.23	0.02	552.50	3.62
GM28D		22.31		0.00	548.53	7.64
GM29S	B	18.82	18.70	0.12	552.45	3.30
GM31		23.15		0.00	548.14	10.09
GM32		18.95		0.00	548.77	12.76
RW4		22.96		0.00	547.99	9.79
RW5		22.87		0.00	548.18	9.68
RW6		22.93		0.00	548.02	8.82
RW7	T	22.94	22.91	0.03	548.04	10.14
C2 *	EB	20.38	20.14	0.24	551.01	0.93
C3 *	B	16.43	16.37	0.06	551.07	3.87
D1 *		18.50		0.00	552.56	1.71
G3 *	B	21.76	21.73	0.03	549.63	11.33
I1		19.00		0.00	548.74	12.21
J2 *	B	17.65		0.00	548.84	10.74

* = new 4" wells installed over old 2" blocked wells

= wells with operating skimmers after visit

B = bottom skimmer

EB= extended bottom skimmer

T = tidal skimmer

RW's GM-32 and RW-I1 converted to flush grade wells on 08/11/1999 to accommodate bike path

Skimwells.xls

Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
08/04/97						23	23.0	
09/18/97	3.81	3.86	0.05	17.4	11.0	6.3	29.3	37
10/13/97	3.83	4.00	0.17	14.7	0.0	14.7	37.7	100
10/21/97	1.95	2.20	0.25	517.3	437.6	79.7	102.7	15
11/03/97	4.00	4.00	0.00	0.0	0.0	0.0	102.7	
11/04/97	3.08	3.17	0.08	173.3	151.3	22.0	124.7	13
11/05/97	3.00	3.08	0.08	196.0	173.3	22.7	125.4	12
11/07/97	1.75	1.83	0.08	580.9	554.4	26.4	129.1	5
11/10/97	0.25	0.50	0.25	976.5	930.3	46.2	148.9	5
11/11/97	4.00	4.00	0.00	0.0	0.0	0.0	148.9	
11/17/97	2.29	2.38	0.08	408.6	382.3	26.2	175.1	6
11/20/97	2.08	2.17	0.08	474.7	448.2	26.5	175.5	6
11/21/97	1.98	2.08	0.10	508.0	474.7	33.2	182.2	7
11/24/97	1.50	1.58	0.08	659.2	633.3	25.9	174.8	4
11/25/97	1.65	1.73	0.08	613.8	587.5	26.3	175.2	4
11/26/97	1.33	1.50	0.17	710.1	659.2	50.9	199.8	7
11/26/97	4.00	4.00	0.00	0.0	0.0	0.0	199.8	
12/03/97	0.67	1.00	0.33	892.8	806.6	86.2	286.0	10
12/04/97	0.00	0.67	0.67	1002.6	892.8	109.8	309.6	11
12/04/97	3.92	3.92	0.00	5.1	5.1	0.0	309.6	
12/08/97	3.42	3.45	0.03	89.8	82.2	7.5	317.2	8
12/12/97	2.40	2.50	0.10	375.8	343.4	32.4	342.0	9
12/19/97	2.15	2.17	0.02	454.8	448.2	6.6	316.2	1
01/06/98	1.63	1.75	0.13	620.3	580.9	39.4	349.0	6
01/08/98	1.21	1.28	0.07	745.6	726.2	19.4	329.0	3
01/13/98	0.67	0.79	0.13	892.8	862.0	30.8	340.4	3
01/15/98	3.92	3.94	0.02	5.1	3.3	1.8	350.8	35
01/20/98	3.29	3.30	0.01	120.3	117.8	2.4	351.4	2
01/26/98	2.75	2.83	0.08	267.7	243.3	24.4	373.4	9
02/10/98	1.65	1.67	0.02	612.4	606.2	6.3	355.3	1
02/17/98	0.42	0.48	0.06	947.2	934.7	12.6	361.6	1
02/19/98	4.00	4.00	0.00	0.0	0.0	0.0	361.6	
02/26/98	2.33	2.42	0.08	395.4	369.3	26.1	387.7	7
03/04/98	1.35	1.40	0.05	705.0	689.9	15.2	376.7	2
03/09/98	0.33	0.42	0.08	962.7	947.2	15.5	377.1	2
03/10/98	4.00	4.00	0.00	0.0	0.0	0.0	387.7	
03/18/98	3.33	3.34	0.01	110.6	108.3	2.4	390.1	2
03/26/98	1.72	1.76	0.04	590.4	577.7	12.7	400.4	2
04/03/98	0.01	0.12	0.11	1002.4	993.9	8.6	396.3	1
04/03/98	4.00	4.00	0.00	0.0	0.0	0.0	400.4	
04/08/98	3.66	3.68	0.02	41.1	37.6	3.5	403.9	9
04/17/98	1.55	1.56	0.01	643.7	640.6	3.1	403.5	0
04/28/98	1.14	1.15	0.01	767.1	764.2	2.9	403.3	0
05/07/98	0.83	0.84	0.01	852.2	849.6	2.6	403.0	0
05/14/98	4.00	4.00	0.00	0.0	0.0	0.0	403.9	
05/21/98	3.46	3.47	0.01	80.9	78.7	2.2	406.1	3
06/03/98	3.10	3.11	0.01	168.9	166.2	2.7	406.5	2
06/08/98	3.07	3.08	0.01	176.9	174.2	2.7	406.6	2
06/12/98	3.05	3.07	0.02	182.3	176.9	5.4	409.3	3
06/25/98	2.66	2.68	0.02	294.6	288.6	6.0	409.9	2
07/14/98	1.97	1.99	0.02	510.9	504.5	6.4	410.3	1
07/22/98	1.87	1.90	0.03	542.8	533.2	9.6	413.4	2
07/23/98	1.86	1.91	0.05	546.0	530.0	15.9	419.8	3
07/30/98	1.85	1.92	0.07	549.1	526.8	22.3	426.2	4
08/11/98	1.89	1.94	0.05	536.4	520.5	15.9	419.8	3
08/17/98	1.45	1.49	0.04	674.6	662.3	12.3	416.2	2
08/19/98	1.25	1.30	0.05	734.9	720.1	14.9	418.8	2
08/26/98	0.90	0.96	0.06	833.8	817.6	16.2	420.1	2
08/31/98	4.00	4.00	0.00	0.0	0.0	0.0	426.2	
09/14/98	3.90	4.00	0.10	6.7	0.0	6.7	432.9	100
09/16/98	3.61	3.62	0.01	50.3	48.4	1.9	428.1	4

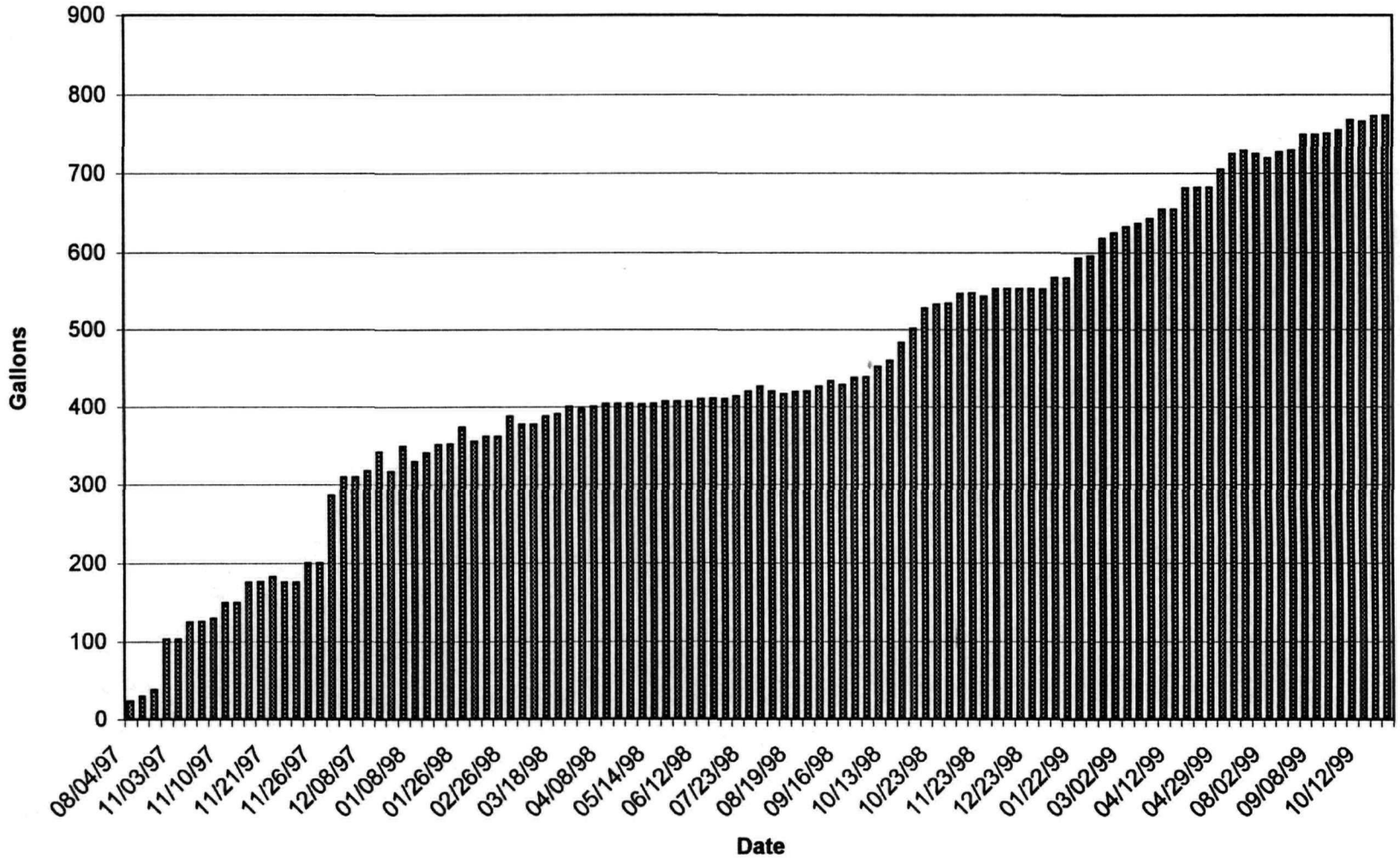
Historical Product Recovery (Pilot and Phase I Skimmer System)
Sylvan Slough Removal Action Site, Rock Island, ILI

Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)

Diameter of tank = 4.00 feet
Length of tank = 10.67 feet
Volume of tank = 1003 gallons

Date	Depth to Product (ft)	Depth to Water (ft)	Product Tx (ft)	Total Fluid Volume (gal)	Water Volume (gal)	Free Product Volume (gal)	Cumulative Product (gal)	%Product
09/22/98	3.00	3.04	0.04	196.0	185.0	11.0	437.2	6
09/30/98	2.83	2.87	0.04	244.2	232.7	11.6	437.7	5
10/07/98	2.25	2.33	0.08	421.7	396.5	25.3	451.4	6
10/13/98	1.96	2.06	0.10	514.6	481.4	33.2	459.4	6
10/19/98	1.19	1.38	0.19	753.3	697.5	55.8	482.0	7
10/21/98	0.67	0.96	0.29	892.8	818.0	74.7	500.9	8
10/23/98	0.50	0.92	0.42	930.3	829.3	101.0	527.2	11
10/23/98	3.92	4.00	0.08	5.1	0.0	5.1	532.2	100
10/26/98	2.67	2.69	0.02	292.6	286.3	6.3	533.4	2
11/05/98	2.50	2.56	0.06	343.4	324.2	19.2	546.4	6
11/18/98	1.71	1.77	0.06	594.1	574.3	19.8	546.9	3
11/23/98	1.54	1.59	0.05	646.8	631.2	15.6	542.7	2
11/30/98	1.46	1.54	0.08	672.0	646.3	25.7	552.9	4
12/07/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/15/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
12/23/98	1.42	1.50	0.08	684.8	659.2	25.6	552.8	4
01/05/99	1.29	1.38	0.08	722.6	697.5	25.1	552.2	3
01/11/99	0.85	1.00	0.15	845.9	806.6	39.3	566.4	5
01/14/99	4.00	4.00	0.00	0.0	0.0	0.0	566.4	
01/22/99	3.67	3.83	0.17	39.9	14.3	25.6	592.0	64
02/05/99	2.84	2.94	0.10	241.3	212.8	28.6	595.0	12
02/15/99	2.46	2.63	0.17	356.3	305.1	51.2	617.6	14
02/16/99	2.44	2.63	0.19	362.8	305.1	57.7	624.1	16
03/02/99	1.67	1.88	0.21	607.2	541.2	66.0	632.4	11
03/19/99	1.33	1.56	0.23	710.1	639.8	70.3	636.7	10
03/23/99	1.27	1.52	0.25	728.8	652.8	76.0	642.4	10
03/24/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/12/99	1.21	1.50	0.29	747.2	659.2	88.0	654.4	12
04/20/99	0.79	1.21	0.42	862.0	747.2	114.8	681.2	13
04/29/99	0.17	0.75	0.58	988.3	872.5	115.8	682.2	12
04/30/99	4.00	4.00	0.00	0.0	0.0	0.0	682.2	
04/29/99	3.44	3.54	0.10	85.9	63.7	22.2	704.4	26
06/08/99	2.41	2.54	0.14	372.9	330.6	42.4	724.6	11
07/13/99	2.00	2.15	0.15	501.3	454.8	46.5	728.7	9
07/26/99	1.08	1.23	0.15	783.3	741.1	42.2	724.4	5
08/02/99	0.46	0.63	0.17	938.9	902.6	36.4	718.6	4
08/10/99	0.21	0.46	0.25	982.7	938.9	43.8	726.0	4
08/12/99	4.00	4.00	0.00	0.0	0.0	0.0	728.7	
08/17/99	3.29	3.38	0.08	119.9	100.1	19.8	748.5	17
09/08/99	3.29	3.38	0.08	119.9	100.1	19.8	748.5	17
09/15/99	3.13	3.21	0.08	162.2	140.6	21.6	750.3	13
09/22/99	2.54	2.63	0.08	330.6	305.1	25.4	754.1	8
10/05/99	1.63	1.75	0.13	620.3	580.9	39.4	768.1	6
10/12/99	1.17	1.29	0.13	759.4	722.6	36.8	765.5	5
10/18/99	0.79	0.96	0.17	862.0	818.0	44.0	772.7	5

Cumulative Product Recovery Since mid-July 1997
Sylvan Slough Removal Action Site, Rock Island, Illinois



Delta
Environmental
Consultants, Inc.

2770 Cleveland Avenue
Roseville, MN 55113-1127
U.S.A.
651/639-9449
FAX: 651/639-9473

December 29, 1999

Mr. Ken Theisen
USEPA/Region V
77 West Jackson Boulevard HSE-5J
Chicago, IL 60604

Subject: PROJECT STATUS REPORT
Sylvan Slough Removal Action Site
Rock Island, Illinois
Delta Project No. A097-130

Summary of Work Performed during November/December 1999

- Conducted site visits on November 2, and December 7, 1999, to evaluate system operation.
- Contacted the system by modem to monitor system operation.
- Coordinated additional site visits by Enviromark to collect system operation data.

Gallons of Oil Recovered

The volume of product recovered from mid-July 1997 through October 5, 1999, is shown on the attached graph.

Since the beginning of the year, 255 gallons of product has been recovered on site.

Monthly Operation Summary, Problems Encountered, and Adjustments

The attached "Skimming Wells" table presents a monthly summary of water levels, product thickness, and the status and type of skimming pump installed in the wells. Ground water elevations are influenced by the water elevation of the river. Product collection appears to increase during decreasing or stable water elevations. Water levels decreased since the August data collection visit.

During the November and December visits, product was measured in ten and ten recovery wells, respectively.

Use of the portable diaphragm pump during site visits has increased product recovery.

Work Schedule for December 1999

- Continue monthly site visits to collect system operation and ground water monitoring data, adjust skimmer depths as needed, and perform system maintenance. Remove boom in slough.

If you have any questions, please call me at (651) 697-5229.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Gary J. Schroeher
Project Manager

GJS/gdo

Attachments

cc: Mr. Gregory Jeffries - BNSF, 80 - 44th Avenue NE, Minneapolis, MN 55421-2559
Mr. Jack Shih - Navistar, 455 North Cityfront Plaza Drive, Chicago, IL 60611

Sylvan Slough- BNSF/Navistar
Rock Island, IL

SKIMMIMG WELLS

Delta Environmental Consultants
Proj. No. A097-130

10/5/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D	EB	25.55	22.69	2.86	548.08	6.88
GM23D		22.60		0.00	548.26	12.24
GM24S	EB	20.05	19.57	0.48	550.66	2.47
GM24D	EB	23.06	23.05	0.01	548.26	6.05
GM25D	EB	23.61		0.00	548.27	5.97
GM28S	EB	18.40	17.75	0.65	552.90	4.02
GM28D		22.31		0.00	548.53	7.64
GM29S		18.39		0.00	552.77	3.63
GM31	B	23.61	22.91	0.70	548.29	10.24
GM32	B	18.93	18.77	0.16	548.93	12.92
RW4		22.81		0.00	548.14	9.94
RW5	T	23.10	22.65	0.45	548.34	9.84
RW6	T	22.88	22.78	0.10	548.16	8.96
RW7		22.75		0.00	548.20	10.30
C2 *	EB	19.90	19.74	0.16	551.42	1.34
C3 *	B	15.55	15.41	0.14	552.02	4.82
D1 *		18.10		0.00	552.96	2.11
G3 *		21.82	21.81	0.01	549.55	11.25
I1		18.61		0.00	549.13	12.60
J2 *	B	17.22	17.18	0.04	549.31	11.21

11/2/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		23.21		0.00	547.92	6.72
GM23D		22.91		0.00	547.95	11.93
GM24S	EB	20.50	20.00	0.50	550.23	2.04
GM24D	EB	23.89	23.19	0.70	548.03	5.82
GM25D	EB	24.20		0.00	547.68	5.38
GM28S	EB	18.25	18.23	0.02	552.50	3.62
GM28D		22.31		0.00	548.53	7.64
GM29S	B	18.82	18.70	0.12	552.45	3.30
GM31		23.15		0.00	548.14	10.09
GM32		18.95		0.00	548.77	12.76
RW4		22.96		0.00	547.99	9.79
RW5		22.87		0.00	548.18	9.68
RW6		22.93		0.00	548.02	8.82
RW7	T	22.94	22.91	0.03	548.04	10.14
C2 *	EB	20.38	20.14	0.24	551.01	0.93
C3 *	B	16.43	16.37	0.06	551.07	3.87
D1 *		18.50		0.00	552.56	1.71
G3 *	B	21.76	21.73	0.03	549.63	11.33
I1		19.00		0.00	548.74	12.21
J2 *	B	17.65		0.00	548.84	10.74

12/7/99

Well No.	T/B	TOC Depth to Water (ft)	TOC Depth to Product (ft)	Product Thickness	Corrected Water Elevation	Fluid in Well (ft)
GM22D		23.00		0.00	548.13	6.93
GM23D		22.67	22.66	0.01	548.20	12.18
GM24S	EB	21.09	20.30	0.79	549.89	1.70
GM24D	EB	24.26	22.92	1.34	548.22	6.01
GM25D		23.65		0.00	548.23	5.93
GM28S	EB	18.78	18.76	0.02	551.97	3.09
GM28D		22.47		0.00	548.37	7.48
GM29S	B	19.92	19.29	0.63	551.79	2.65
GM31		22.90		0.00	548.39	10.34
GM32		18.75		0.00	548.97	12.96
RW4		22.70	22.69	0.01	548.26	10.06
RW5	T	22.74	22.65	0.09	548.39	9.89
RW6	T	22.98	22.68	0.30	548.23	9.03
RW7		22.71	22.70	0.01	548.25	10.35
C2 *	EB	20.67	20.42	0.25	550.73	0.65
C3 *	B	16.49	16.44	0.05	551.00	3.80
D1 *		19.06		0.00	552.00	1.15
G3 *	B	22.00	21.98	0.02	549.38	11.08
I1		18.75		0.00	548.99	12.46
J2 *	B	17.73	17.69	0.04	548.80	10.70

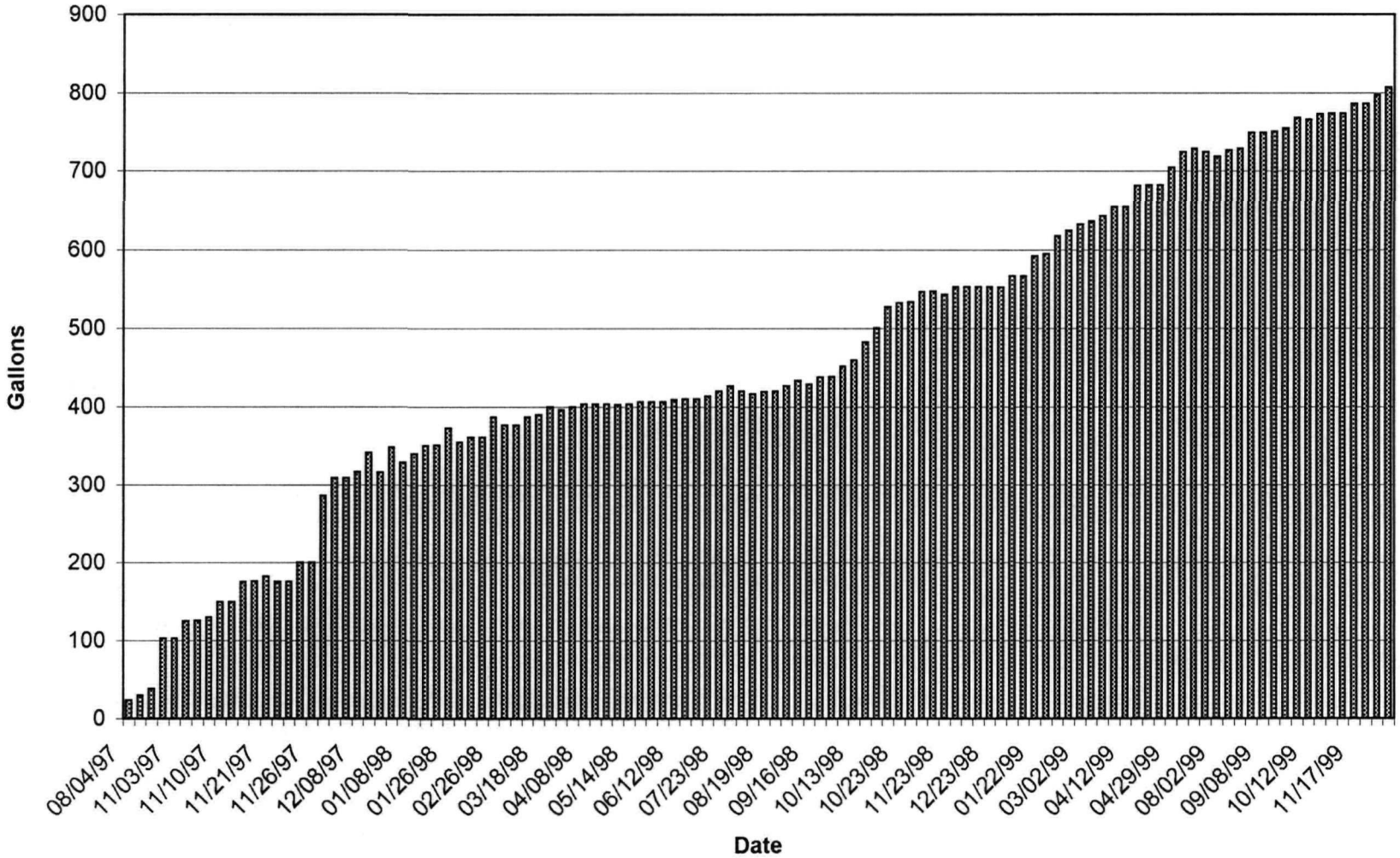
* = new 4" wells installed over old 2" blocked wells

= wells with operating skimmers after visit

B = bottom skimmer

EB= extended bottom skimmer

T = tidal skimmer

RW's GM-32 and RW-I1 converted to flush grade wells on 08/11/1999 to accommodate bike path

Cumulative Product Recovery Since mid-July 1997
Sylvan Slough Removal Action Site, Rock Island, Illinois