

Attachment 1 - Flow and Load Analysis

Groundwater Flow and Load Analysis

Plot	Sampler #	June Load (mg)	June LOAD RANK	June Flow (L)	June FLOW RANK	Aug Load (mg)	Aug_Flow (L)	Aug FLOW RANK	Sept Load (mg)	Sept LOAD RANK	Sept_Flow (L)	Sept FLOW RANK	Oct Load (mg)	Oct_Flow (L)	Oct FLOW RANK	Jan1_Load (mg)	Jan1 LOAD RANK	Jan1_Flow (L)	Jan1 FLOW RANK	Jan2_Load (mg)	Jan2 LOAD RANK	Jan2_Flow (L)	Jan2 FLOW RANK	AVE TOTAL LOAD RANK	AVE TOTAL FLOW RANK
1	1	6.35	2.0	370	3.0	NS	2.4	1.0	NS	6.5	0.0	7.0	NS	0.0	6.0	163	1.0	5814	4.0	282	2.0	11246	1.0	2.9	3.7
2	3	4.99	3.5	320	4.0	NS	1.6	4.5	1.36	4.0	34.4	4.0	NA	44.8	2.0	97	5.0	6345	3.0	249	4.0	9038	2.0	4.1	3.3
3	6	8.16	1.0	490	1.0	NS	0.6	8.0	4.36	1.0	150	1.0	NS	8.4	3.0	45	8.0	2939	6.0	117	5.0	5207	6.0	3.8	4.2
4	8	4.99	3.5	228	5.0	NS	0.7	7.0	NS	6.5	0.0	7.0	NS	0.0	6.0	100	4.0	6830	1.0	254	3.0	5541	5.0	4.3	5.2
5	9	5.44	6.0	453	2.0	NS	1.6	4.5	2.73	3.0	70.4	2.0	NS	60.0	1.0	139	2.0	6468	2.0	342	1.0	8509	3.0	3.0	2.4
6	11	0.68	6.0	55	6.5	NS	1.4	6.0	3.04	2.0	63.7	3.0	NS	0.0	6.0	61	7.0	2619	8.0	116	6.0	4980	7.0	5.3	6.1
7	14	0.68	6.0	55	6.5	NS	2.1	2.5	NS	6.5	4.2	5.0	NS	0.0	6.0	119	3.0	5607	5.0	108	7.0	6369	4.0	5.6	4.8
8	16	NS	8.0	0.0	8.0	NS	2.1	2.5	NS	6.5	0.0	7.0	NS	0.0	6.0	73	6.0	2598	7.0	80	8.0	4077	8.0	7.1	6.4

Surface Water Flow and Load Analysis

Plot	Sampler #	June Load (mg)	June LOAD RANK	June Flow (L)	June FLOW RANK	Aug Load (mg)	Aug LOAD RANK	Aug_Flow (L)	Aug FLOW RANK	Sept Load (mg)	Sept LOAD RANK	Sept_Flow (L)	Sept FLOW RANK	Oct Load (mg)	Oct LOAD RANK	Oct_Flow (L)	Oct FLOW RANK	Jan1_Load (mg)	Jan1 LOAD RANK	Jan1_Flow (L)	Jan1 FLOW RANK	Jan2_Load (mg)	Jan2 LOAD RANK	Jan2_Flow (L)	Jan2 FLOW RANK	TOTAL LOAD RANK	TOTAL Q RANK
1	2	61.7	4	112	2	77.6	4	283	1	85.3	4	286	1	38.4	4.0	164	1	90.5	7	337	6	190	7	2019	4	5.0	2.5
2	4	16.1	7	15	7	31.4	7	91	7	35.7	7	78	7	NS	6.5	0	NS	14.3	8	102	8	NS	8	NS	8	7.3	6.2
3	5	86.6	1	92	4	95.0	1	238	3	95.2	3	225	4	54.2	2.5	128	2	100	5	323	7	175	4	1804	6	2.8	4.3
4	7	79.1	2	100	3	93.3	2	265	2	122	1	249	3	54.6	2.5	126	3	185	3	440	4	259	2	1744	7	2.1	3.7
5	10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	160	4	659	3	312	1	1921	5	2.5	4.0
6	12	71.8	3	114	1	82.1	3	227	5	120	2	256	2	59.9	1.0	123	4	245	1	830	2	167	6	2727	3	2.7	2.8
7	13	48.7	6	79	6	33.2	6	169	6	72.5	6	193	6	37.1	5.0	105	5	236	2	858	1	240	3	4204	1	4.7	4.2
8	15	54.2	5	89	5	73.8	5	235	4	84.8	5	214	5	NS	6.5	92	6	96.5	6	370	5	169	5	3367	2	5.4	4.5

GW AVE	TOTAL LOAD RANK	SW TOTAL LOAD RANK	AVE OF GW and SW
1	2.9	5.0	3.9
2	4.1	7.3	5.7
3	3.8	2.8	3.3
4	4.3	2.1	3.2
5	3.0	2.5	2.8
6	5.3	2.7	4.0
7	5.6	4.7	5.1
8	7.1	5.4	6.3

GW AVE	TOTAL FLOW RANK	SW TOTAL FLOW RANK	AVE OF GW and SW
1	3.7	2.5	3.1
2	3.3	6.2	4.7
3	4.2	4.3	4.3
4	5.2	3.7	4.4
5	2.4	4.0	3.2
6	6.1	2.8	4.5
7	4.8	4.2	4.5
8	6.4	4.5	5.5

PLOT	Surface/Tile	Average Ratio
1	Tile	1.16
2	Tile	1.19
3	Tile	1.06
4	Tile	0.25
5	Tile	1.63
6	Tile	0.52
7	Tile	0.60
8	Tile	0.36

PLOT	Surface/Tile	Average Ratio
1	Surface	1.28
2	Surface	0.11
3	Surface	1.15
4	Surface	1.25
5	Surface	1.05
6	Surface	1.27
7	Surface	1.20
8	Surface	0.91

PLOT	Surface/Tile	Average Ratio
1	Total	1.57
2	Total	0.97
3	Total	1.26
4	Total	0.69
5	Total	1.34
6	Total	0.79
7	Total	0.92
8	Total	0.72