

Mississippi-Rideau Source Protection Plan Annual Report from the Municipality

Legally Binding Policies

Municipalities with Drinking Water Systems

Municipality Report for Year(s)
Report completed by Date

Instructions: *Completion of this report is mandatory;* however there are many “optional” parts where completion is not required. Information provided in annual reports will be used to review and improve the Source Protection Plan in the future. Complete this report at the end of the calendar year and submit it to the Source Protection Authority (Conservation Authority) by February 1 of the following year. The first report is due February 1, 2018. The first report will provide information for the years 2015, 2016 and 2017. Subsequent reports will cover only a single calendar year.

SECTION 1: ONE-TIME POLICIES (skip any policy in this section completed and reported on previously)

Policy SEW-3-LB Lot Grade and Drainage Plans

- Not required (septic systems not permitted in the IPZ-10 or WHPA-10)
- Required and in place
- Documentation attached (optional) (e.g., copy of new requirement)

COMPLIANCE DEADLINE:
June 30, 2015

Additional details/comments (optional):

Policy SEW-4-LB Mandatory Connection to Sewer Services

- In place
- Documentation attached (optional) (e.g., copy of by-law)

COMPLIANCE DEADLINE:
December 31, 2015

Additional details/comments (optional):

Policy ADMIN-3-LB Official Plan and Zoning By-Law Conformity

- OP amendment: completed under appeal in process
 not started
- ZBL amendment: completed under appeal in process
 not started
- Documentation attached (optional) (e.g. copy of by-law)

COMPLIANCE DEADLINE:
 OP – First five-year review after January 1, 2015
 ZBL – within three years of OP amendment

Additional details / comments (optional):

SECTION 2: PERIODIC POLICIES

Policy SEW-6-LB Sanitary Sewer Maintenance Program

- Program has been initiated
- Documentation attached (optional)

COMPLIANCE DEADLINE:
 Initiate by December 31, 2015
 Five year intervals thereafter

Description (optional) such as method, schedule, remedial work planned and work carried out:

Carleton Place, North Grenville, Perth, Smiths Falls only – other municipalities leave this blank

COMPLIANCE DEADLINE:
 December 31, 2015
 Update as necessary thereafter

Policy SALT-3-LB Road Salt Management Plan

- Plan has been developed
- Documentation attached (optional) (e.g., copy of the Plan, yearly review report if one is prepared under Environment Canada’s *Code of Practice for the Management of Road Salts*)

Additional details / comments (optional):

**Carleton Place, North Grenville, Perth, Smiths Falls only
– other municipalities leave this blank**

COMPLIANCE DEADLINE:
Initiate by December 31, 2015
Periodic thereafter

Policy SALT-4-LB Promotion of Smart Salt Practices

- Promoted to municipal staff
- Promoted to private sector (snow removal contractors, facility managers)

Description of initiatives and level of participation (optional):

Policy EDU-1-LB Living in the Zone Education Program

- Educational program initiated

COMPLIANCE DEADLINE:
Initiate by December 31, 2015
Periodic thereafter

Description of initiatives (optional):

SECTION 3: ONGOING POLICIES

Policies ADMIN-1-LB, ADMIN-2-LB Restricted Land Uses

- Planning and Building applications are being screened for source protection policies prior to proceeding
- Documentation attached (optional)

COMPLIANCE DEADLINE:
January 1, 2015 / ongoing

Details/comments (optional):

Policies ADMIN-4-LB, ADMIN-5-LB Transition/Interruption/Expansion

- These policies are being used to determine if a proposal should be considered “existing” or “future” so that the correct source protection policy can be applied
- Documentation attached (optional)

COMPLIANCE DEADLINE:
January 1, 2015 / ongoing

Details/Comments (optional):

**Policy SEW-9-LB-PA/PI-MC Future Stormwater Management Facilities
Policy SEW-15-LB-PA/PI-MC Future “Other” Sewage Works**

- Future stormwater management facilities and “other” sewage works (see policy wording for types) are being prohibited through zoning where required by these policies
- Documentation attached (optional)

COMPLIANCE DEADLINE:
January 1, 2015 / ongoing

Details/comments (optional):

**Municipalities with groundwater systems only
– other municipalities leave this blank**

COMPLIANCE DEADLINE:
Ongoing

Annual Raw Water Testing for Chloride

- Copy of raw water testing results for chloride attached (optional)

Details/comments (optional):

SECTION 4: GENERAL IMPLEMENTATION (mandatory — feedback required by MOECC)

A) Municipal Use of Tools

Which tools/resources has the municipality been using to implement the Source Protection Plan?

- Source Protection Mapping Tool
- Risk Management Official Forum
- Resource Catalogue/Campaign in a Box Toolkit
- Education & Outreach Webinar
- Education & Outreach Community of Practice
- Guidance Materials (e.g., factsheets, information bulletins)
- MOECC training (e.g., RMO/RMI certification)
- OMAFRA/OFEC Information Sessions
- Other — please specify:

B) Municipal Integration of Source Protection — Program Areas

In which program areas is the municipality now integrating source protection knowledge / science?

- Road salt storage/application
- Snow storage
- Pesticide storage/application
- Hazardous waste storage
- Organic solvents storage
- Municipal fuel storage
- Municipal well maintenance and operations
- Municipal water quantity
- Stormwater infrastructure maintenance
- Other — please specify:

C) Municipal Integration of Source Protection — Business Practices

Which specific measures have been taken by the municipality to integrate source protection into business practices?

- Planning/building staff trained in source protection and application screening procedure in place
- Staff guidance documents updated
- Guidance and/or forms for applicants updated
- Planning documents, maps, schedules updated
- Siting/placement of activities away from vulnerable areas
- Change to complete planning application requirements
- Other — please specify:

D) Funding for Source Protection Implementation

How is implementation directly or indirectly funded? Check all that apply.

- Provincial funding
- Municipal taxes
- Municipal water rates
- Other:

SECTION 5: GENERAL FEEDBACK (optional)

A) Source Protection Plan Policies

Recommendations for future revisions of the Source Protection Plan policies such as changes to policies or policy wording, additional policies, removal of policies. Please provide any details, supporting information and rationale that will assist the Source Protection Committee in decisions related to your recommendations:

B) Source Protection Plan Document

Suggested changes to the Source Protection Plan document (layout, correction of errors, inclusion of additional resource materials):

C) Source Protection Program

Suggestions for the future of the source protection program (additional technical studies needed or not needed, new policy direction, expansion or reduction of scope, emerging issues):

Results for Annual Raw Water Testing for Chloride (2015 to 2019)

Raw water Carp well #1					
Chloride			Sampling Point Name	Detection Limit/MDL	
	01-05-2015 11:40	34.0	mg/L	Well #1	0.5
	02-03-2015 08:55	34.1	mg/L	Well #1	0.5
	03-10-2015 10:50	33.4	mg/L	Well #1	0.5
	04-07-2015 13:45	32.2	mg/L	Well #1	0.5
	05-08-2015 10:35	33.3	mg/L	Well #1	0.5
	06-02-2015 10:25	31.9	mg/L	Well #1	0.5
	07-09-2015 12:45	33.9	mg/L	Well #1	0.5
	08-14-2015 10:25	35.6	mg/L	Well #1	0.5
	09-09-2015 13:10	36.9	mg/L	Well #1	0.5
	10-06-2015 11:25	35.0	mg/L	Well #1	0.5
	11-05-2015 13:05	33.3	mg/L	Well #1	0.5
	12-07-2015 13:50	33.4	mg/L	Well #1	0.5
	01-04-2016 09:25	32.5	mg/L	Well #1	0.5
	02-12-2016 09:45	31.5	mg/L	Well #1	0.5
	03-08-2016 10:40	35.9	mg/L	Well #1	0.5
	04-05-2016 12:10	36.8	mg/L	Well #1	0.5
	05-16-2016 13:05	56.0	mg/L	Well #1	0.5
	06-09-2016 14:20	34.1	mg/L	Well #1	0.5
	07-06-2016 13:20	42.9	mg/L	Well #1	0.5
	08-19-2016 13:30	39.0	mg/L	Well #1	0.5
	09-09-2016 10:25	39.6	mg/L	Well #1	0.5
	09-14-2016 10:20	39.3	mg/L	Well #1	0.5
	10-04-2016 13:30	37.4	mg/L	Well #1	0.5
	11-04-2016 12:10	36.3	mg/L	Well #1	0.5
	12-14-2016 12:55	37.5	mg/L	Well #1	0.5
	01-09-2017 13:45	38.6	mg/L	Well #1	0.5
	02-09-2017 13:30	35.5	mg/L	Well #1	0.5
	03-10-2017 06:10	33.6	mg/L	Well #1	0.5
	04-03-2017 13:15	34.8	mg/L	Well #1	0.5
	05-01-2017 11:50	36.0	mg/L	Well #1	0.5
	06-02-2017 11:00	38.4	mg/L	Well #1	0.5
	07-06-2017 13:35	35.1	mg/L	Well #1	0.5
	08-04-2017 13:30	35.2	mg/L	Well #1	0.5
	09-05-2017 15:05	35.4	mg/L	Well #1	0.5
	10-03-2017 11:05	35.9	mg/L	Well #1	0.5
	11-06-2017 13:20	34.3	mg/L	Well #1	0.5
	12-08-2017 13:05	36.1	mg/L	Well #1	0.5
	01-12-2018 12:15	35.6	mg/L	Well #1	0.5
	02-05-2018 09:25	36.3	mg/L	Well #1	0.5
	03-09-2018 10:45	35.9	mg/L	Well #1	0.5
	04-03-2018 10:20	36.3	mg/L	Well #1	0.5
	05-10-2018 12:20	37.5	mg/L	Well #1	0.5
	06-14-2018 12:10	35.6	mg/L	Well #1	0.5
	07-12-2018 10:30	37.6	mg/L	Well #1	0.5
	08-03-2018 09:00	35.6	mg/L	Well #1	0.5
	09-13-2018 09:57	34.3	mg/L	Well #1	0.5
	10-05-2018 12:10	35.1	mg/L	Well #1	0.5
	11-05-2018 09:34	36.2	mg/L	Well #1	0.5
	12-07-2018 12:40	33.7	mg/L	Well #1	0.5
	01-08-2019 11:15	33.7	mg/L	Well #1	0.5
	02-07-2019 09:40	38.1	mg/L	Well #1	0.5
	03-04-2019 09:28	37.6	mg/L	Well #1	0.5
	04-02-2019 08:50	33.8	mg/L	Well #1	0.5
	05-07-2019 12:40	45.1	mg/L	Well #1	0.5
	06-04-2019 12:30	38.3	mg/L	Well #1	0.5
	07-19-2019 11:45	38.0	mg/L	Well #1	0.5
	08-06-2019 09:00	34.3	mg/L	Well #1	0.5
	09-06-2019 10:25	39.1	mg/L	Well #1	0.5
	10-08-2019 13:25	38.2	mg/L	Well #1	0.5
	11-15-2019 12:50	36.1	mg/L	Well #1	0.5
	12-03-2019 14:20	37.8	mg/L	Well #1	0.5
# samples:	61	min:	31.5	mg/L	
# detects:	61	max:	56.0	mg/L	
# non-detects:	0	avg:	36.3	mg/L (based on 61 numerical results)	
# exceedances:	0				

Raw water Carp well #2					
Chloride			Sampling Point Name	Detection Limit/MDL	
	01-05-2015 11:55	38.6	mg/L	Well #2	0.5
	02-03-2015 09:15	38.6	mg/L	Well #2	0.5
	03-10-2015 10:10	37.9	mg/L	Well #2	0.5
	04-07-2015 13:30	38.1	mg/L	Well #2	0.5
	05-08-2015 10:00	41.9	mg/L	Well #2	0.5
	06-02-2015 09:45	42.4	mg/L	Well #2	0.5
	07-09-2015 12:25	46.6	mg/L	Well #2	0.5
	08-14-2015 09:35	45.1	mg/L	Well #2	0.5
	09-09-2015 12:10	47.8	mg/L	Well #2	0.5
	10-06-2015 10:05	45.5	mg/L	Well #2	0.5
	11-05-2015 12:45	45.6	mg/L	Well #2	0.5
	12-07-2015 13:20	39.8	mg/L	Well #2	0.5
	01-04-2016 09:45	40.4	mg/L	Well #2	0.5
	02-12-2016 09:30	43.2	mg/L	Well #2	0.5
	03-08-2016 10:25	55.2	mg/L	Well #2	0.5
	04-05-2016 11:35	54.0	mg/L	Well #2	0.5
	05-16-2016 12:40	45.6	mg/L	Well #2	0.5
	06-09-2016 14:00	50.8	mg/L	Well #2	0.5
	07-06-2016 12:50	53.6	mg/L	Well #2	0.5
	08-19-2016 13:05	50.5	mg/L	Well #2	0.5
	09-09-2016 09:40	49.5	mg/L	Well #2	0.5
	09-14-2016 10:30	51.8	mg/L	Well #2	0.5
	10-04-2016 13:15	49.3	mg/L	Well #2	0.5
	11-04-2016 11:45	46.9	mg/L	Well #2	0.5
	12-14-2016 12:40	50.2	mg/L	Well #2	0.5
	01-09-2017 13:20	48.5	mg/L	Well #2	0.5
	02-09-2017 13:10	44.9	mg/L	Well #2	0.5
	03-10-2017 05:50	41.4	mg/L	Well #2	0.5
	04-03-2017 12:40	49.5	mg/L	Well #2	0.5
	05-01-2017 11:30	58.2	mg/L	Well #2	0.5
	06-02-2017 10:40	57.2	mg/L	Well #2	0.5
	07-06-2017 12:15	51.7	mg/L	Well #2	0.5
	08-04-2017 13:35	55.9	mg/L	Well #2	0.5
	09-05-2017 14:25	50.2	mg/L	Well #2	0.5
	10-03-2017 10:50	50.6	mg/L	Well #2	0.5
	11-06-2017 12:55	44.4	mg/L	Well #2	0.5
	12-08-2017 12:40	49.8	mg/L	Well #2	0.5
	01-12-2018 11:40	43.0	mg/L	Well #2	0.5
	02-05-2018 09:05	44.1	mg/L	Well #2	0.5
	03-09-2018 10:30	43.7	mg/L	Well #2	0.5
	04-03-2018 10:15	47.8	mg/L	Well #2	0.5
	05-10-2018 11:55	49.9	mg/L	Well #2	0.5
	06-14-2018 12:05	50.3	mg/L	Well #2	0.5
	07-12-2018 10:05	53.3	mg/L	Well #2	0.5
	08-03-2018 09:08	47.1	mg/L	Well #2	0.5
	09-13-2018 09:47	46.4	mg/L	Well #2	0.5
	10-05-2018 12:20	52.0	mg/L	Well #2	0.5
	11-05-2018 09:00	43.7	mg/L	Well #2	0.5
	12-07-2018 12:30	43.3	mg/L	Well #2	0.5
	01-08-2019 11:20	47.5	mg/L	Well #2	0.5
	02-07-2019 09:34	44.7	mg/L	Well #2	0.5
	03-04-2019 09:20	43.5	mg/L	Well #2	0.5
	04-02-2019 08:55	41.7	mg/L	Well #2	0.5
	05-07-2019 12:35	66.8	mg/L	Well #2	0.5
	06-04-2019 12:35	54.1	mg/L	Well #2	0.5
	07-19-2019 11:15	57.5	mg/L	Well #2	0.5
	08-06-2019 09:12	44.6	mg/L	Well #2	0.5
	09-06-2019 10:30	48.9	mg/L	Well #2	0.5
	10-08-2019 13:30	49.7	mg/L	Well #2	0.5
	11-15-2019 12:55	39.9	mg/L	Well #2	0.5
	12-03-2019 14:25	45.7	mg/L	Well #2	0.5
# samples:	61	min:	37.9	mg/L	
# detects:	61	max:	66.8	mg/L	
# non-detects:	0	avg:	47.5	mg/L (based on 61 numerical results)	
# exceedances:	0				

Results for Annual Raw Water Testing for Chloride (2015 to 2019)

Raw Water Kings Park Well #1					
Chloride			Sampling Point Name	Detection Limit/MDL	
	01-08-2015 08:50	134	mg/L	KPH1 Raw	1
	02-02-2015 09:30	133	mg/L	KPH1 Raw	1
	03-02-2015 10:00	135	mg/L	KPH1 Raw	1
	04-07-2015 09:10	149	mg/L	KPH1 Raw	1
	05-14-2015 09:25	133	mg/L	KPH1 Raw	1
	06-01-2015 10:30	166	mg/L	KPH1 Raw	1
	07-06-2015 09:20	138	mg/L	KPH1 Raw	1
	08-13-2015 09:05	133	mg/L	KPH1 Raw	1
	08-19-2015 08:10	140	mg/L	KPH1 Raw	1
	09-03-2015 09:15	153	mg/L	KPH1 Raw	1
	10-05-2015 09:45	133	mg/L	KPH1 Raw	1
	11-02-2015 08:10	138	mg/L	KPH1 Raw	1
	12-07-2015 09:05	134	mg/L	KPH1 Raw	1
	01-04-2016 07:45	151	mg/L	KPH1 Raw	1
	02-01-2016 09:50	155	mg/L	KPH1 Raw	1
	03-03-2016 10:20	143	mg/L	KPH1 Raw	1
	04-11-2016 08:50	129	mg/L	KPH1 Raw	1
	05-09-2016 09:10	134	mg/L	KPH1 Raw	1
	06-02-2016 10:50	155	mg/L	KPH1 Raw	1
	07-04-2016 09:30	140	mg/L	KPH1 Raw	1
	08-04-2016 08:25	135	mg/L	KPH1 Raw	1
	09-08-2016 09:55	143	mg/L	KPH1 Raw	1
	10-06-2016 10:10	126	mg/L	KPH1 Raw	1
	11-10-2016 09:10	121	mg/L	KPH1 Raw	1
	12-08-2016 10:40	125	mg/L	KPH1 Raw	1
	01-09-2017 09:25	130	mg/L	KPH1 Raw	1
	02-06-2017 09:15	139	mg/L	KPH1 Raw	1
	03-10-2017 11:20	130	mg/L	KPH1 Raw	1
	04-10-2017 07:55	143	mg/L	KPH1 Raw	1
	05-04-2017 07:20	135	mg/L	KPH1 Raw	1
	06-05-2017 09:05	137	mg/L	KPH1 Raw	1
	07-06-2017 09:30	136	mg/L	KPH1 Raw	1
	08-08-2017 09:00	142	mg/L	KPH1 Raw	1
	09-08-2017 09:40	131	mg/L	KPH1 Raw	1
	09-18-2017 09:20	139	mg/L	KPH1 Raw	1
	10-02-2017 09:20	151	mg/L	KPH1 Raw	1
	11-06-2017 10:00	147	mg/L	KPH1 Raw	1
	12-04-2017 09:15	145	mg/L	KPH1 Raw	1
	01-11-2018 09:05	131	mg/L	KPH1 Raw	1
	02-08-2018 11:15	136	mg/L	KPH1 Raw	1
	03-12-2018 14:55	144	mg/L	KPH1 Raw	1
	04-09-2018 09:35	152	mg/L	KPH1 Raw	1
	05-07-2018 09:30	161	mg/L	KPH1 Raw	1
	06-01-2018 10:45	145	mg/L	KPH1 Raw	1
	07-05-2018 09:50	153	mg/L	KPH1 Raw	1
	08-09-2018 07:45	151	mg/L	KPH1 Raw	1
	10-04-2018 10:50	152	mg/L	KPH1 Raw	1
	11-05-2018 10:02	169	mg/L	KPH1 Raw	1
	12-03-2018 08:40	163	mg/L	KPH1 Raw	1
	01-07-2019 09:10	160	mg/L	KPH1 Raw	1
	02-04-2019 09:40	157	mg/L	KPH1 Raw	1
	03-07-2019 07:55	184	mg/L	KPH1 Raw	1
	04-01-2019 08:25	158	mg/L	KPH1 Raw	1
	05-09-2019 09:50	152	mg/L	KPH1 Raw	1
	06-03-2019 09:15	167	mg/L	KPH1 Raw	1
	07-02-2019 10:15	176	mg/L	KPH1 Raw	1
	08-08-2019 08:10	153	mg/L	KPH1 Raw	1
	09-05-2019 11:00	151	mg/L	KPH1 Raw	1
	10-03-2019 09:15	147	mg/L	KPH1 Raw	1
	11-04-2019 09:55	166	mg/L	KPH1 Raw	1
	12-02-2019 09:15	160	mg/L	KPH1 Raw	1
# samples:	61	min:	121	mg/L	
# detects:	61	max:	184	mg/L	
# non-detects:	0	avg:	145	mg/L (based on 61 numerical results)	
# exceedances:	0				

Raw Water Kings Park Well #2					
Chloride			Sampling Point Name	Detection Limit/MDL	
	01-05-2015 09:15	174	mg/L	KPH2 Raw	1
	03-10-2015 10:10	174	mg/L	KPH2 Raw	1
	04-27-2015 09:15	165	mg/L	KPH2 Raw	1
	05-04-2015 09:15	168	mg/L	KPH2 Raw	1
	06-08-2015 09:35	187	mg/L	KPH2 Raw	1
	07-23-2015 09:10	183	mg/L	KPH2 Raw	1
	08-06-2015 09:40	185	mg/L	KPH2 Raw	1
	09-08-2015 13:20	196	mg/L	KPH2 Raw	1
	10-19-2015 09:25	192	mg/L	KPH2 Raw	1
	11-05-2015 09:25	203	mg/L	KPH2 Raw	1
	12-09-2015 10:00	201	mg/L	KPH2 Raw	1
	01-07-2016 09:05	183	mg/L	KPH2 Raw	1
	02-03-2016 10:35	175	mg/L	KPH2 Raw	1
	03-07-2016 09:45	167	mg/L	KPH2 Raw	1
	04-04-2016 09:25	165	mg/L	KPH2 Raw	1
	05-02-2016 09:05	163	mg/L	KPH2 Raw	1
	06-06-2016 09:50	173	mg/L	KPH2 Raw	1
	07-07-2016 10:00	189	mg/L	KPH2 Raw	1
	08-15-2016 09:10	197	mg/L	KPH2 Raw	1
	09-15-2016 09:55	196	mg/L	KPH2 Raw	1
	10-03-2016 09:45	180	mg/L	KPH2 Raw	1
	11-03-2016 10:30	183	mg/L	KPH2 Raw	1
	12-06-2016 13:40	193	mg/L	KPH2 Raw	1
	01-05-2017 09:30	187	mg/L	KPH2 Raw	1
	02-13-2017 09:35	198	mg/L	KPH2 Raw	1
	03-06-2017 09:10	178	mg/L	KPH2 Raw	1
	04-03-2017 08:20	172	mg/L	KPH2 Raw	1
	05-01-2017 15:29	167	mg/L	KPH2 Raw	1
	06-01-2017 09:45	175	mg/L	KPH2 Raw	1
	07-04-2017 09:35	196	mg/L	KPH2 Raw	1
	08-03-2017 09:40	170	mg/L	KPH2 Raw	1
	09-05-2017 10:35	182	mg/L	KPH2 Raw	1
	10-06-2017 10:35	194	mg/L	KPH2 Raw	1
	11-09-2017 07:30	187	mg/L	KPH2 Raw	1
	12-15-2017 09:30	170	mg/L	KPH2 Raw	1
	01-08-2018 10:05	178	mg/L	KPH2 Raw	1
	02-05-2018 11:13	166	mg/L	KPH2 Raw	1
	03-08-2018 09:20	169	mg/L	KPH2 Raw	1
	04-04-2018 11:00	169	mg/L	KPH2 Raw	1
	05-03-2018 07:35	166	mg/L	KPH2 Raw	1
	06-04-2018 09:45	174	mg/L	KPH2 Raw	1
	07-13-2018 09:45	192	mg/L	KPH2 Raw	1
	08-02-2018 10:05	207	mg/L	KPH2 Raw	1
	09-14-2018 08:50	203	mg/L	KPH2 Raw	1
	10-01-2018 09:40	203	mg/L	KPH2 Raw	1
	12-06-2018 09:10	177	mg/L	KPH2 Raw	1
	01-11-2019 09:25	167	mg/L	KPH2 Raw	1
	02-07-2019 12:05	171	mg/L	KPH2 Raw	1
	04-08-2019 08:50	171	mg/L	KPH2 Raw	1
	05-06-2019 09:15	171	mg/L	KPH2 Raw	1
	06-05-2019 11:30	176	mg/L	KPH2 Raw	1
	07-04-2019 09:35	186	mg/L	KPH2 Raw	1
	08-06-2019 08:00	193	mg/L	KPH2 Raw	1
	09-03-2019 09:40	196	mg/L	KPH2 Raw	1
	10-10-2019 09:30	192	mg/L	KPH2 Raw	1
	11-08-2019 09:30	182	mg/L	KPH2 Raw	1
	12-05-2019 09:15	181	mg/L	KPH2 Raw	1
# samples:	57	min:	163	mg/L	
# detects:	57	max:	207	mg/L	
# non-detects:	0	avg:	182	mg/L (based on 57 numerical results)	
# exceedances:	0				

Results for Annual Raw Water Testing for Chloride (2015 to 2019)

Raw water Munster well #1					
Chloride			Sampling Point Name	Detection Limit/MDL	
	01-02-2015 08:20	79.4	mg/L	Well #1	0.5
	02-02-2015 08:05	80.1	mg/L	Well #1	0.5
	03-03-2015 13:00	80.7	mg/L	Well #1	0.5
	04-07-2015 11:10	85.3	mg/L	Well #1	0.5
	05-04-2015 11:05	78.8	mg/L	Well #1	0.5
	06-01-2015 12:40	91.1	mg/L	Well #1	0.5
	07-06-2015 11:15	79.4	mg/L	Well #1	0.5
	08-13-2015 10:50	87.2	mg/L	Well #1	0.5
	09-11-2015 09:50	86.0	mg/L	Well #1	0.5
	10-06-2015 11:55	85.1	mg/L	Well #1	0.5
	11-02-2015 11:00	86.7	mg/L	Well #1	0.5
	12-07-2015 10:40	82.6	mg/L	Well #1	0.5
	01-04-2016 07:00	83.6	mg/L	Well #1	0.5
	02-01-2016 11:35	85.5	mg/L	Well #1	0.5
	03-07-2016 12:25	82.5	mg/L	Well #1	0.5
	04-11-2016 10:45	42.0	mg/L	Well #1	0.5
	05-02-2016 11:05	83.3	mg/L	Well #1	0.5
	06-06-2016 12:00	84.6	mg/L	Well #1	0.5
	07-07-2016 12:25	82.3	mg/L	Well #1	0.5
	08-15-2016 11:20	82.3	mg/L	Well #1	0.5
	09-08-2016 12:25	88.0	mg/L	Well #1	0.5
	10-03-2016 13:45	88.9	mg/L	Well #1	0.5
	11-03-2016 13:05	86.5	mg/L	Well #1	0.5
	12-12-2016 11:25	86.6	mg/L	Well #1	0.5
	01-06-2017 12:05	89.0	mg/L	Well #1	0.5
	02-06-2017 11:55	85.4	mg/L	Well #1	0.5
	03-06-2017 10:50	82.7	mg/L	Well #1	0.5
	04-03-2017 10:55	84.4	mg/L	Well #1	0.5
	05-02-2017 07:15	86.7	mg/L	Well #1	0.5
	06-01-2017 12:10	88.0	mg/L	Well #1	0.5
	07-10-2017 11:15	82.3	mg/L	Well #1	0.5
	08-04-2017 10:00	84.1	mg/L	Well #1	0.5
	09-05-2017 12:15	84.6	mg/L	Well #1	0.5
	10-02-2017 12:00	90.1	mg/L	Well #1	0.5
	11-06-2017 11:40	82.3	mg/L	Well #1	0.5
	12-04-2017 11:25	87.1	mg/L	Well #1	0.5
	01-11-2018 11:10	87.5	mg/L	Well #1	0.5
	02-05-2018 09:18	87.8	mg/L	Well #1	0.5
	03-08-2018 12:55	87.5	mg/L	Well #1	0.5
	04-03-2018 13:30	87.1	mg/L	Well #1	0.5
	05-10-2018 09:35	85.6	mg/L	Well #1	0.5
	06-14-2018 09:50	87.0	mg/L	Well #1	0.5
	07-17-2018 09:15	89.5	mg/L	Well #1	0.5
	08-02-2018 11:55	91.9	mg/L	Well #1	0.5
	09-14-2018 12:35	92.2	mg/L	Well #1	0.5
	10-05-2018 09:05	89.1	mg/L	Well #1	0.5
	11-05-2018 08:42	86.6	mg/L	Well #1	0.5
	12-13-2018 10:40	77.0	mg/L	Well #1	0.5
	01-07-2019 11:35	82.4	mg/L	Well #1	0.5
	02-07-2019 09:50	84.4	mg/L	Well #1	0.5
	03-07-2019 12:40	83.0	mg/L	Well #1	0.5
	04-01-2019 12:00	82.4	mg/L	Well #1	0.5
	05-06-2019 12:40	77.2	mg/L	Well #1	0.5
	06-04-2019 09:55	82.3	mg/L	Well #1	0.5
	07-23-2019 12:40	80.9	mg/L	Well #1	0.5
	08-08-2019 10:40	82.5	mg/L	Well #1	0.5
	09-06-2019 13:50	83.0	mg/L	Well #1	0.5
	10-04-2019 12:40	84.8	mg/L	Well #1	0.5
	11-06-2019 11:40	85.0	mg/L	Well #1	0.5
	12-04-2019 13:17	81.6	mg/L	Well #1	0.5
# samples:	60	min:	42.0	mg/L	
# detects:	60	max:	92.2	mg/L	
# non-detects:	0	avg:	84.1	mg/L (based on 60 numerical results)	
# exceedances:	0				

Raw water Munster well #2					
Chloride			Sampling Point Name	Detection Limit/MDL	
	01-02-2015 08:30	51.6	mg/L	Well #2	0.5
	02-02-2015 08:10	57.7	mg/L	Well #2	0.5
	03-03-2015 13:05	58.9	mg/L	Well #2	0.5
	04-07-2015 11:20	66.4	mg/L	Well #2	0.5
	05-04-2015 11:10	48.2	mg/L	Well #2	0.5
	06-01-2015 12:45	68.7	mg/L	Well #2	0.5
	07-06-2015 11:20	63.8	mg/L	Well #2	0.5
	08-13-2015 10:55	68.3	mg/L	Well #2	0.5
	09-11-2015 09:55	65.6	mg/L	Well #2	0.5
	10-06-2015 12:00	51.5	mg/L	Well #2	0.5
	11-02-2015 11:05	57.0	mg/L	Well #2	0.5
	12-07-2015 10:45	54.9	mg/L	Well #2	0.5
	01-04-2016 07:05	66.3	mg/L	Well #2	0.5
	02-01-2016 11:40	62.5	mg/L	Well #2	0.5
	03-07-2016 12:30	52.3	mg/L	Well #2	0.5
	04-11-2016 10:50	53.5	mg/L	Well #2	0.5
	05-02-2016 11:10	61.3	mg/L	Well #2	0.5
	06-06-2016 11:55	63.5	mg/L	Well #2	0.5
	07-07-2016 12:30	63.7	mg/L	Well #2	0.5
	08-15-2016 11:25	51.9	mg/L	Well #2	0.5
	09-08-2016 12:30	66.3	mg/L	Well #2	0.5
	10-03-2016 13:50	66.4	mg/L	Well #2	0.5
	11-03-2016 13:10	61.7	mg/L	Well #2	0.5
	12-12-2016 11:30	54.8	mg/L	Well #2	0.5
	01-06-2017 12:10	65.1	mg/L	Well #2	0.5
	02-06-2017 12:00	50.5	mg/L	Well #2	0.5
	03-06-2017 10:55	54.3	mg/L	Well #2	0.5
	04-03-2017 11:05	51.8	mg/L	Well #2	0.5
	05-02-2017 07:25	62.4	mg/L	Well #2	0.5
	06-01-2017 12:15	63.4	mg/L	Well #2	0.5
	07-10-2017 11:20	64.2	mg/L	Well #2	0.5
	08-04-2017 10:05	52.0	mg/L	Well #2	0.5
	09-05-2017 12:30	53.3	mg/L	Well #2	0.5
	10-02-2017 12:05	66.9	mg/L	Well #2	0.5
	11-06-2017 11:45	52.9	mg/L	Well #2	0.5
	12-04-2017 11:30	64.4	mg/L	Well #2	0.5
	01-11-2018 11:15	67.5	mg/L	Well #2	0.5
	02-05-2018 09:28	64.4	mg/L	Well #2	0.5
	03-08-2018 13:00	66.4	mg/L	Well #2	0.5
	04-03-2018 13:35	64.2	mg/L	Well #2	0.5
	05-10-2018 09:40	68.5	mg/L	Well #2	0.5
	06-14-2018 09:55	52.7	mg/L	Well #2	0.5
	07-17-2018 09:20	69.2	mg/L	Well #2	0.5
	08-02-2018 12:00	72.1	mg/L	Well #2	0.5
	09-14-2018 12:45	71.0	mg/L	Well #2	0.5
	10-05-2018 09:10	70.1	mg/L	Well #2	0.5
	11-05-2018 08:52	66.8	mg/L	Well #2	0.5
	12-13-2018 11:00	54.9	mg/L	Well #2	0.5
	01-07-2019 11:40	66.8	mg/L	Well #2	0.5
	02-07-2019 10:00	70.1	mg/L	Well #2	0.5
	03-07-2019 12:45	68.1	mg/L	Well #2	0.5
	04-01-2019 12:05	67.6	mg/L	Well #2	0.5
	05-06-2019 12:45	54.9	mg/L	Well #2	0.5
	06-04-2019 10:00	52.3	mg/L	Well #2	0.5
	07-23-2019 12:50	63.1	mg/L	Well #2	0.5
	08-08-2019 10:50	62.4	mg/L	Well #2	0.5
	09-06-2019 13:55	68.4	mg/L	Well #2	0.5
	10-04-2019 12:45	56.5	mg/L	Well #2	0.5
	11-06-2019 11:45	73.8	mg/L	Well #2	0.5
	12-04-2019 13:20	69.8	mg/L	Well #2	0.5
# samples:	60	min:	48.2	mg/L	
# detects:	60	max:	73.8	mg/L	
# non-detects:	0	avg:	61.7	mg/L (based on 60 numerical results)	
# exceedances:	0				

Results for Annual Raw Water Testing for Chloride (2019)

Raw water Richmond well #1				
Chloride			Sampling Point Name	Detection Limit/MDL
	04-01-2019 10:40	54.2	mg/L Well 1	0.5
	05-06-2019 11:05	55.9	mg/L Well 1	0.5
	06-03-2019 12:25	54.3	mg/L Well 1	0.5
	07-09-2019 09:20	55.8	mg/L Well 1	0.5
	08-06-2019 09:45	56.0	mg/L Well 1	0.5
	09-05-2019 12:45	59.4	mg/L Well 1	0.5
	10-07-2019 11:55	62.3	mg/L Well 1	0.5
	11-08-2019 11:30	62.1	mg/L Well 1	0.5
	12-02-2019 11:15	61.5	mg/L Well 1	0.5
# samples:	9	min:	54.2	mg/L
# detects:	9	max:	62.3	mg/L
# non-detects:	0	avg:	57.9	mg/L (based on 9 numerical results)
# exceedances:	0			

Raw water Richmond well #2				
Chloride			Sampling Point Name	Detection Limit/MDL
	04-01-2019 10:45	54.0	mg/L Well 2	0.5
	05-06-2019 11:10	55.2	mg/L Well 2	0.5
	06-03-2019 12:30	55.7	mg/L Well 2	0.5
	07-09-2019 09:25	50.3	mg/L Well 2	0.5
	08-06-2019 09:50	56.4	mg/L Well 2	0.5
	09-05-2019 12:50	63.3	mg/L Well 2	0.5
	10-07-2019 12:00	66.4	mg/L Well 2	0.5
	11-08-2019 11:35	63.3	mg/L Well 2	0.5
	12-02-2019 11:20	59.0	mg/L Well 2	0.5
# samples:	9	min:	50.3	mg/L
# detects:	9	max:	66.4	mg/L
# non-detects:	0	avg:	58.2	mg/L (based on 9 numerical results)
# exceedances:	0			