

# **The Corporation of the City of Kawartha Lakes**

## **Agenda**

### **Lindsay-Ops Landfill Public Review Committee Meeting**

**2019-158**

**Wednesday, November 13, 2019**

**3:00 P.M.**

**Weldon Room**

**City Hall**

**26 Francis Street, Lindsay, Ontario K9V 5R8**

#### **Members:**

**Councillor Pat Dunn**

**Chris Appleton**

**Karen Buckley**

**Barry Hodgson**

**William McLaren**

**Lloyd Robertson**

**Larry Scrivens**

**Ken Trodd**

1.	Call to Order	
2.	Adoption of Agenda	
3.	Disclosures of Pecuniary Interest	
4.	Approval of the Minutes of the Previous Meeting	3 - 6
5.	Reports	
5.1	PRC Activity Summary Spreadsheet	7 - 7
6.	Landfill Complaints	
7.	Leachate Outbreaks	
8.	Other New Business	
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10.	Next Meeting	
11.	Adjournment	10 - 10

**The Corporation of the City of Kawartha Lakes  
Minutes  
Lindsay-Ops Landfill Public Review Committee  
Meeting**

**2019-157  
Wednesday, October 9, 2019  
2:00 P.M.  
Weldon Room  
City Hall  
26 Francis Street, Lindsay, Ontario K9V 5R8**

**Members:  
Councillor Pat Dunn  
Chris Appleton  
Karen Buckley  
Barry Hodgson  
Lloyd Robertson**

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**1. Call to Order**

The Chair called the meeting to order at 2:05pm.

**2. Adoption of Agenda**

**Moved By** Councillor Dunn

**Seconded By** B. Hodgson

**Carried**

**3. Disclosures of Pecuniary Interest**

There were no declarations of pecuniary interest disclosed.

**4. Approval of the Minutes of the Previous Meeting**

**Moved By** B. Hodgson

**Seconded By** K. Buckley

**Carried**

**5. Reports**

5.1 PRC Activity Summary Spreadsheet

**6. Landfill Complaints**

No complaints.

**7. Leachate Outbreaks**

No leachate outbreaks.

**8. Other New Business**

8.1 Integrated Waste Management Strategy Update-Second Draft

Staff provided the PRC with a copy of the second draft of the Strategy Update which incorporated all of the comments received on the first draft from the various committees.

**Moved By** C. Appleton

**Seconded By** K. Buckley

Resolved that the Lindsay Ops Landfill Public Review Committee supports the Proposed Integrated Waste Management Strategy Update as outlined at the

October 9, 2019 meeting and that the Strategy Update be presented at the Committee of the Whole meeting on November 5th for endorsement.

**Carried**

## 8.2 Construction and Demolition Pilot Update

Staff provided an update on the success of the construction and demolition pilot program throughout 2019 in regards to recycling of clean wood and drywall. Chris Appleton requested that staff continue to review variable tip rates for separated and non-separated loads of construction and demolition material in order to incentivize separating the clean wood and drywall for recycling. Staff will continue to review this option throughout the pilot program pending budget approval for 2020.

## 8.3 Single Use Plastics Recommendations

Staff informed the committee of a minor change to staff's recommendations to council regarding the single use plastics ban report which will go to the Committee of the Whole meeting on November 5th. Staff moved a previous recommendation to the body of the report which mentions the possibility of phasing single use plastics out of City owned facilities.

## 9. Public Comment Period

No comments.

**Moved By** C. Appleton

**Seconded By** L. Robertson

Resolved that the PRC thanks Heather for her professional services over the years to the PRC and the City.

**Carried**

## 10. Next Meeting

The next meeting will be Wednesday, November 13 at 3:00pm. in the Weldon Room, City Hall.

## 11. Adjournment

**Moved By** Councillor Dunn

**Seconded By** C. Appleton

The meeting was adjourned at 3:00pm.

**Carried**

**Lindsay Ops Landfill Public Review Committee  
Action List**

Meeting Date of Activity	Action	Responsibility	Action Item Date:	Status
15-May-13	PRC requested operational updates on the Landfill Gas Electricity Generation.	CKL	Monthly	<b>Nov 13 Meeting:</b> New gas wells hooked up to system on June 10th-11th. Cover will be placed in well area. Have seen increases in KWH produced since June.
15-Jan-14	That the PRC is copied on Staff Reports to Council regarding the Lindsay Ops Landfill	CKL	As Available	<b>Nov 13 Meeting:</b> Single Use Plastics Report and Strategy Update to COW meeting on Nov 5th.
21-Jan-15	Provide update on quarterly PCB testing (SW3/ SW13)	CKL	Quarterly	<b>Nov 13 Meeting:</b> Samples taken July 17th and August 13th. No PCBs detected. Fall sampling completed second week in October, have not received results from the lab yet.
17-Jun-15	MECP Comments	CKL	As Available	<b>Nov 13 Meeting:</b> Meeting being scheduled to discuss groundwater and surface water monitoring at the site.
23-Nov-16	Biomonitoring	CKL	As Available	<b>Nov 13 Meeting:</b> No updates.
21-Jan-19	Leachate Water Quality Results	CKL	As Available	<b>Nov 13 Meeting:</b> See attached spreadsheet.
17-May-17	Waste Management Advisory Committee Update	CKL	As Available	<b>Nov 13 Meeting:</b> At the October meeting the committee reviewed the second draft of the Strategy and an update on the C&D pilot program.
17-Jan-17	Updates on Blue Box markets and Legislation	CKL	As Available	<b>Nov 13 Meeting:</b> Markets low and expected to drop even lower. Date for transition to producer responsibility of the blue box has been set for 2023-2025.
16-May-18	Construction and Demolition and Mattress Recycling Update	CKL	As Available	<b>Nov 13 Meeting:</b> clean wood program ending on November 15th for 2019, drywall to continue, mattress recycling to continue.
20-Jun-18	Lindsay Ops EA Process Update	CKL	As Available	<b>Nov 13 Meeting:</b> No updates.

## 2019 Work Summary

Goal	Completed in 2019
Integrated Waste Management Strategy	<p>PRC provided comment, feedback, and suggestions throughout 2019 on the Integrated Waste Management Strategy Update.</p> <ul style="list-style-type: none"> <li>• March- PRC provided feedback on Strategy progress from 2015 to 2019</li> <li>• April- PRC reviewed public survey questions, participated in brainstorming activities for future initiatives</li> <li>• May- PRC supported recommendations to council to make the mattress recycling program permanent and to continue the construction and demolition pilot throughout 2020</li> <li>• July- PRC reviewed results of the public consultation process (survey results and comments from public meeting)</li> <li>• September- PRC reviewed and provided feedback on the first draft of Strategy Update</li> <li>• October- PRC supported the second draft of Strategy Update for council approval</li> </ul>
2019 Biomonitoring Report	<p>PRC had the opportunity to view the draft Biomonitoring report before it was finalized to provide comments and ask questions.</p>
2018 Annual Monitoring Report	<p>A copy of the 2018 Annual Monitoring Report was provided to the PRC. At the June meeting the PRC viewed a PowerPoint presentation on the reporting results in 2018.</p>
Review of Ministry of the Environment, Conservation and Parks (MECP) Correspondence	<p>PRC reviewed all MECP correspondence regarding the annual monitoring report and any inspection reports.</p> <ul style="list-style-type: none"> <li>• February- PRC provided inspection report by the MECP for the north expansion area of the Lindsay Ops Landfill</li> <li>• April- PRC provided MECP surface water comments on the 2017 Annual Monitoring Report</li> <li>• September- PRC provided MECP groundwater comments on the 2015, 2016, 2017, and 2018 Annual Monitoring Reports as well as an inspection report by the MECP for the storm water management system</li> </ul>
Development of 2020 Work Plan	<p>The PRC developed a 2020 work plan for council approval at the November meeting.</p>



## 2020 Lindsay Ops PRC Work Plan Tool

<b>Committee Name:</b>	Lindsay Ops Landfill Public Review Committee
<b>Work plan for Year:</b>	2020
<b>Approved by Council:</b>	

<b>Goal</b>	<b>Measurement Stages</b>	<b>Timeline</b>	<b>Measurement for Success</b>
Integrated Waste Management Strategy	1. Provide recommendations on the implementation of various waste management initiatives outlined in the Strategy Update for 2020	1. Ongoing	1. 2020 Strategy Initiatives achieved
2020 Biomonitoring Report	1. Review biomonitoring results and report	1. April to June	1. Provide feedback during draft phase of report
2019 Annual Monitoring Report	2. Review 2019 Annual Monitoring Report and committee questions	1. May to June	1. Dialogue with committee to ensure ECA conditions are met
Review of Ministry of the Environment Conservation and Parks (MECP) Correspondence	1. Review all MECP correspondence regarding the annual monitoring report. 2. Review of any MECP inspection reports	1. As received 2. As received	1. Any Ministry correspondence is addressed in a timely manner by committee and staff for response to MECP. 2. For committee information
Development of 2021 Work Plan	1. Review and acceptance of 2021 Work Plan 2. Staff Report to Council for approval	1. November 2. December	1. Approval of 2021 work plan by Lindsay Ops PRC Committee and Council

Lindsay Ops Leachate

Exceeds Bylaw Value  
Exceeds PWQO Value

Parameters	CKL Sewer Bylaw Limits (mg/L)	Provincial Water Quality Objectives (mg/L)	Jan. Results (mg/L)	Feb. Results (mg/L)	Mar. Results (mg/L)	April. Results (mg/L)	April. Results (mg/L) new cell	May Results (mg/L)	June Results (mg/L)	July Results (mg/L)	August Results (mg/L)	September Results (mg/L)	October. Results (mg/L) new cell
Hardness (CaCO3)	N/A	N/A	593	596	544	653	925	557	475	628	649	664	1090
Alkalinity (CaCO3)	N/A	N/A	609	599	601	482	1270	528	531	693	773	759	2380
Biochemical Oxygen Demand (BOD)	300	N/A	<3	19	8	7	262	4	3	5	4	n/a	62
TDS	N/A	N/A	991	1005	972	928	1550	796	743	1045	1144	1258	4318
Dissolved Organic Carbon	N/A	N/A	13.1	13.4	13.5	12.9	207	14.8	12.1	16.1	18.5	1.3	130
COD	N/A	N/A	73	62	63	56	644	40	38	76	78	112	692
Chloride	N/A	N/A	176	199	198	127	27.5	107	106	138	202	307	887
Ammonia (N) - Total	N/A	1.11	17.6	17.6	16.9	14.1	10	9.71	10.5	20.9	26.6	28.4	350
Fluoride	10	N/A	0.2	0.1	< 0.1	< 0.1	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 3
Phenolic, 4AAP	1	0.001	0.012	<0.002	< 0.002	< 0.002	0.14	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Sulphate	N/A	N/A	45	42	48	139	10	38	34	33	22	15	121
Nitrite	N/A	N/A	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 1
Nitrate	N/A	N/A	0.08	0.15	0.18	0.16	< 0.05	0.42	0.32	< 0.05	< 0.05	< 0.05	< 1
Kjeldahl Nitrogen - Total	50	N/A	19.7	20.5	20.8	17.6	104	10.9	10.5	25.2	30.7	35.8	364
Aluminum - Total	50	0.075*	0.27	0.12	0.12	0.68	0.13	0.1	0.08	0.15	0.1	0.07	0.62
Antimony - Total	5	0.02	<0.0005	<0.0001	< 0.0005	0.0006	0.0022	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.002
Arsenic - Total	1	0.1	0.0024	0.0013	0.0008	0.0013	0.0107	0.0013	0.0009	0.0026	0.0012	0.0014	0.0189
Barium	N/A	N/A	0.331	0.297	0.253	0.245	0.362	0.211	0.159	0.394	0.382	0.471	0.82
Beryllium	N/A	1.1**	<0.002	<0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron	N/A	0.2	0.382	0.426	0.37	0.299	2.95	0.281	0.278	0.509	0.54	0.632	9.68
Cadmium - Total	0.7	0.0002	<0.00007	<0.000015	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.000070
Calcium	N/A	N/A	179	175	160	211	273	184	154	184	186	180	267
Chromium - Total	2.8	0.0099	0.017	0.011	0.012	0.161	0.013	0.004	0.001	0.013	< 0.001	0.004	0.037
Cobalt - Total	5	0.0009	0.0013	0.007	0.0013	0.0025	0.0052	0.0009	0.0011	0.0015	0.001	0.0011	0.0159
Copper - Total	2	0.005	0.0042	0.0011	0.0011	0.0062	0.011	0.001	0.0015	0.0021	< 0.0005	< 0.0005	0.008
Iron	N/A	0.3	27.7	11	5.64	21	7.96	20.9	10.8	45.5	14.4	15.1	59.6
Lead - Total	1	0.005	0.0025	0.00012	0.0002	0.0016	0.0016	0.0004	0.0001	0.0005	< 0.0001	< 0.0001	0.0013
Magnesium	N/A	N/A	35.3	38.6	35.1	30.6	59.1	23.6	21.9	40.9	44.8	52	104
Manganese - Total	5	N/A	0.45	0.363	0.355	0.618	0.63	0.439	0.35	0.447	0.379	0.299	0.837
Mercury - Total	0.01	0.0002	<0.00002	<0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum - Total	5	0.04	<0.0005	0.0002	< 0.0005	0.0022	0.0009	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0021
Nickel - Total	2	0.025	0.01	0.01	0.01	0.07	0.03	< 0.01	< 0.01	0.01	< 0.01	0.01	0.09
Potassium	N/A	N/A	18.1	21.3	19.1	14.5	139	11.7	10.8	24	27.4	28.9	260
Phosphorus	N/A	N/A	<0.1	<0.1	< 0.1	0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.3
Phosphorus - Total	10	0.01	0.05	0.03	0.03	0.1	0.29	0.05	0.02	0.05	0.03	0.03	3.21
Selenium - Total	1	0.1	<0.005	<0.0001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.012
Silver - Total	0.4	0.0001	<0.0001	<0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	N/A	N/A	121	136	123	97.6	257	81.6	73	136	149	168	740
Strontium	N/A	10 bq/L	0.64 mg/L	0.715 mg/L	0.622	0.678	1.35	0.572	0.515	0.774	0.732	0.794	2.73
Thallium	N/A	0.0003	<0.0003	<0.00005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Vanadium	N/A	0.006	0.0018	0.0009	0.0008	0.0025	0.0074	0.0009	0.0005	0.0018	0.0007	0.001	0.0239
Zinc - Total	2	0.03	0.023	0.009	0.03	0.035	0.034	0.009	< 0.005	0.006	< 0.005	0.005	0.185
Benzene	0.01	0.0008	0.0023	0.0007	0.0006	< 0.5	0.0007	< 0.0005	< 0.0016	0.0006	< 0.0005	0.0018	
Toluene	0.02	0.0008	<0.0005	<0.0005	<0.0005	< 0.0005	0.0126	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Ethylbenzene	0.06	0.008	0.0027	<0.0005	<0.0005	< 0.0005	0.0006	< 0.0005	< 0.0011	< 0.0005	< 0.0005	< 0.0005	
Xylene, m, p -	N/A	N/A	0.0042	<0.001	<0.001	< 0.001	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene, o -	N/A	0.04	0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Xylene, m, p, o -	N/A	N/A	0.0042	<0.0011	<0.0011	<0.0011	0.0018	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	

Parameters	Limits	Provincial Water Quality Objectives	Jan. Results	Feb. Results	Mar. Results	April. Results	Apr. Results New Cell	May. Results	June. Results	July. Results	Aug. Results	Sept. Results	Oct. Results New Cell
pH (at 25 °C)	6.0 - 9.5	6.5 - 8.5	7.34	7.68	7.6	7.34	7.74	7.13	7.35	6.95	7.4	7.28	7.87
Conductivity (at 25 °C)	N/A	N/A	1750 µmho/cm	1780 µmho/cm	1790 µmho/cm	1590 µmho/cm	3490 µmho/cm	1370 µmho/cm	1350 µmho/cm	1860 µmho/cm	2000 µmho/cm	2160 µmho/cm	7050 µmho/cm
Conductivity (calculated)	N/A	N/A	1650 µmho/cm	1720 µmho/cm	1664 µmho/cm	1563 µmho/cm	2403 µmho/cm	1344 µmho/cm	1267 µmho/cm	1692 µmho/cm	1928 µmho/cm	2141 µmho/cm	6453 µmho/cm
Anion Sum	N/A	N/A	18.1 meq/L	18.5 meq/L	18.6 meq/L	16.1 meq/L	26.4 meq/L	14.4 meq/L	14.3 meq/L	18.4 meq/L	21.6 meq/L	24.1 meq/L	75.1 meq/L
Cation Sum	N/A	N/A	20.3 meq/L	20.2 meq/L	18.2 meq/L	18.7 meq/L	34.4 meq/L	16.8 meq/L	14.3 meq/L	23 meq/L	22.8 meq/L	24.1 meq/L	88.5 meq/L
% Difference	N/A	N/A	5.77%	4.51%	1.09%	7.29%	13.10%	7.78%	0.18%	11.00%	2.68%	0.02%	8.17%
Ion Ratio (AS/CS)	N/A	N/A	0.891	0.914	1.02	0.864	0.769	0.856	1	0.801	0.948	1	0.849
Sodium Adsorption Ratio	N/A	N/A	2.16	2.42	2.29	1.66	3.68	1.5	1.46	2.36	2.54	2.84	9.73
TDS (calc.) / EC (actual)	N/A	N/A	0.567	0.565	0.542	0.585	0.444	0.58	0.551	0.561	0.572	0.582	0.612
Langelier Index (at 25°C)	N/A	N/A	0.875	1.19	1.08	0.845	1.77	0.635	0.78	0.543	1.05	0.903	2.12