Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2013 To March, 2014

Permit No. ILR40 0227

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: VILLAGE OF ADDISON Mailing Address 1: 1 FRIENDSHIP PLAZA

Mailing Address 2: County: DuPage

City: ADDISON State: IL Zip: 60101 Telephone: 630-543-4100

Contact Person: RUDOLFO ESPEDIDO Email Address: REspedido@addison-il.org
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

DUPAGE COUNTY - COPERMITTEE

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

1. Public Education and Outreach ☐
2. Public Participation/Involvement ☐
3. Illicit Discharge Detection & Elimination ☐
4. Construction Site Runoff Control ☐
5. Post-Construction Runoff Control ☐
6. Pollution Prevention/Good Housekeeping ☐

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: Date: 5/29/14

Rudolfo Espedido
Printed Name:

Village Engineer
Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

Village of Addison Annual Report Year 11

A. Public Education and Outreach
- ☒ **A.1 Distributed Paper Material**
- ☐ **A.2 Speaking Engagement**
- ☐ **A.3 Public Service Announcement**
- ☒ **A.4 Community Event**
- ☐ **A.5 Classroom Education Material**
- ☐ **A.6 Other Public Education**

B. Public Participation/Involvement
- ☐ **B.1 Public Panel**
- ☐ **B.2 Educational Volunteer**
- ☒ **B.3 Stakeholder Meeting**
- ☐ **B.4 Public Hearing**
- ☒ **B.5 Volunteer Monitoring**
- ☐ **B.6 Program Coordination**
- ☒ **B.7 Other Public Involvement**

C. Illicit Discharge Detection and Elimination
- ☒ **C.1 Storm Sewer Map Preparation**
- ☒ **C.2 Regulatory Control Program**
- ☒ **C.3 Detection/Elimination Prioritization Plan**
- ☒ **C.4 Illicit Discharge Tracing Procedures**
- ☒ **C.5 Illicit Source Removal Procedures**
- ☒ **C.6 Program Evaluation and Assessment**
- ☒ **C.7 Visual Dry Weather Screening**
- ☒ **C.8 Pollutant Field Testing**
- ☐ **C.9 Public Notification**
- ☐ **C.10 Other Illicit Discharge Controls**

D. Construction Site Runoff Control
- ☒ **D.1 Regulatory Control Program**
- ☒ **D.2 Erosion and Sediment Control BMPs**
- ☐ **D.3 Other Waste Control Program**
- ☒ **D.4 Site Plan Review Procedures**
- ☒ **D.5 Public Information Handling Procedures**
- ☒ **D.6 Site Inspection/Enforcement Procedures**
- ☐ **D.7 Other Construction Site Runoff Controls**

E. Post-Construction Runoff Control
- ☐ **E.1 Community Control Strategy**
- ☒ **E.2 Regulatory Control Program**
- ☐ **E.3 Long Term O&M Procedures**
- ☒ **E.4 Pre-Const Review of BMP Designs**
- ☒ **E.5 Site Inspections during Construction**
- ☒ **E.6 Post-Construction Inspections**
- ☐ **E.7 Other Post-Const Runoff Controls**

F. Pollution Prevention/Good Housekeeping
- ☒ **F.1 Employee Training Program**
- ☒ **F.2 Inspection and Maintenance Program**
- ☒ **F.3 Municipal Operations Storm Water Control**
- ☒ **F.4 Municipal Operations Waste Disposal**
- ☐ **F.5 Flood Management/Assess Guidelines**
- ☐ **F.6 Other Municipal Operations Control**

SECTION B: Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified Best Management Practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

A. Public Education and Outreach

☒ **A.1 Distributed Paper Material**
☐ **A.2 Speaking Engagement**
☐ **A.3 Public Service Announcement**
☒ **A.4 Community Event**
☐ **A.5 Classroom Education Material**
☐ **A.6 Other Public Education**

ADDITIONAL VILLAGE COMPLETED TASKS:

The Village of Addison continues to distribute our own educational brochures. They are titled, "Guide to Storm Water Management," "Guide to Protecting Our Water Quality," "Guide to Best Management Practices," and "Guide to Drainage Easements." Additional brochures related to storm water management and water quality are currently being developed. Materials related to recycling, storm sewer stenciling, and dumping are distributed.

The Village of Addison also distributes various brochures produced by DuPage County. The Village's electronic monthly newsletter also periodically includes educational information released by the County.

The Village of Addison sent an informational FAQ sheet to homeowners along drainage swales in May of 2010 regarding proper maintenance and landscaping. The sheet provided instruction on maintaining stream banks, preventing blockages, and controlling erosion.

B. Public Participation/Involvement

☐ **B.1 Public Panel**
☐ **B.2 Educational Volunteer**
☒ **B.3 Stakeholder Meeting**
☐ **B.4 Public Hearing**
☒ **B.5 Volunteer Monitoring**
☐ **B.6 Program Coordination**
☒ **B.7 Other Public Involvement**

ADDITIONAL VILLAGE COMPLETED TASKS:

The Village of Addison has a regular attendee of the Municipal Engineer's Meeting Group and has continued to assist in crafting Countywide ordinance revisions pertaining to protecting water quality with revised best management practice and illicit detection and discharge elimination

requirements. The Village in conjunction with the rest of the group will continue its efforts on Water Quality improvement such as NPDES Phase II requirements, Soil and Erosion Control and Floodplain Ordinance revisions, Best Management Practices Manual and NPDES Outfall mapping, and Illicit Discharge and Detection Elimination.

The Village also continues to attend The DuPage River Salt Creek Workgroup (DRSCW) regular meetings, fund its annual fee, and offer available expertise as necessary.

The Village of Addison, in conjunction with the Conservation Foundation, coordinated two local River Sweep events in Westwood Creek and Salt Creek. A group of residents cleaned a section of Salt Creek on May 18, 2013 during the County-wide River Sweep event. Secondly, on August 12, 2013, the local Boy Scout Troop #410 from Addison provided 7 volunteers and cleaned a section of Westwood Creek from Addison Rd. to Rozanne Dr. The Village of Addison assisted with event coordination, and disposal of all materials. A combined total of approximately 5 cubic yards of debris was removed during the two events.

Water monitoring kits were distributed to science students at Addison Trail High School. Sampling was initiated at several key outfalls. The students will continue to collect and analyze samples in the fall and spring of each year as time permits. There were no unusual concentrations found during the reporting period.

C. Illicit Discharge Detection and Elimination

☒ **C.1 Storm Sewer Map Preparation**
☒ **C.2 Regulatory Control Program**
☒ **C.3 Detection/Elimination Prioritization Plan**
☒ **C.4 Illicit Discharge Tracing Procedures**
☒ **C.5 Illicit Source Removal Procedures**
☒ **C.6 Program Evaluation and Assessment**
☒ **C.7 Visual Dry Weather Screening**
☒ **C.8 Pollutant Field Testing**
☐ **C.9 Public Notification**
☐ **C.10 Other Illicit Discharge Controls**

ADDITIONAL VILLAGE COMPLETED TASKS:

The Village of Addison continues to revise its storm sewer atlases and provide updates on its GIS. Creek outfalls have been located with GPS equipment and have been inputted into the GIS.

The development of an illicit discharge detection and elimination (IDDE) program has been completed and a local IDDE manual has been submitted with the 2008 Notice of Intent. The IDDE program was fully implemented in March 2008. The IDDE program includes a prioritization plan, outfall visual screening, monitoring program, tracing, enforcement, and reporting.

The Village of Addison had identified 58 outfalls, and each was visually inspected and the conditions recorded during the reporting period. All outfalls were normal, and records of the inspections are available for review in our office.

There were several investigations performed over the past year related to pollution in the storm sewer system and local streams:

1) A complaint was received regarding concrete workers on North Lombard Rd. The workers were washing out equipment into the Village's storm sewer system. The sewer line was checked and samples were collected. There was no environmental damage downstream. The company will be charged for monitoring, and was issued a warning.
2) A complaint was received regarding dead fish along the banks of Centennial Pond. Several pond samples were collected and routine analysis performed. There were no unusual or high concentrations of pollutants found. No known cause exists. The area will be checked periodically.
3) A suspect sewage discharge was detected by workers on the Route 53 project near the corner of Grove St and Route 53. A sample was collected and analyzed for fecal. High concentrations were found. The discharge was found in an old DuPage County abandoned sewer line. The resident at the corner and the County were notified. The resident plans to connect to the Village of Addison's sanitary sewer.
4) A suspected laundry discharge was found coming from an unincorporated house into the Village's storm sewer near Ninth Av and Byron Av. The resident was notified by letter and given 30 days to disconnect. The work was completed by October 31st and reinspected. No further action needed.
5) A process discharge was found based on an anonymous complaint against a countertop manufacturer at 869 Route 53. An emergency overflow from their marble wet cutting process was hooked up to the Village's storm sewer. Samples were collected and the company will be charged for analyses and clean-up of the storm sewer.
6) A suspected sewage discharge was again detected by workers on the Route 53 project near the corner of Grove St and Route 53. The discharge was ceased before we arrived to sample. The resident was pumping from a swale along Grove St into a storm sewer. DuPage County was again notified of the problem. The resident plans to connect to the Village Sanitary Sewer.
7) A white discharge was reported along the entrance to the Public Works facility on Jeffrey Dr. The discharge was traced to a company at 600 S. Lombard Road. A sample was collected that showed high solids and a high pH. The discharge was from an accidental release from a concrete dump site on the property. A notice was sent. Clean-up on the property occurred immediately, however, additional clean-up will be needed after the small creek thaws.

Finally, the Village also performed periodic grab sampling and analysis at 18 of the 58 outfall points. A total of 71 screening samples were collected and 228 different field analyses were performed. Parameters tested included Metals, D.O., Petroleum Hydrocarbons, Temperature, Ammonia, Nitrate, Phosphate and pH. A summary of the monitoring data collected is attached in Section C. There were no high levels reported during the testing.

D. Construction Site Runoff Control

☒ **D.1 Regulatory Control Program**

☒ **D.2 Erosion and Sediment Control BMPs**

☐ **D.3 Other Waste Control Program**
☒ **D.4 Site Plan Review Procedures**
☐ **D.5 Public Information Handling Procedures**
☒ **D.6 Site Inspection/Enforcement Procedures**
☐ **D.7 Other Construction Site Runoff Controls**

ADDITIONAL VILLAGE COMPLETED TASKS:

Village of Addison staff continues to be a regular attendee of the Municipal Engineer's Meeting Group and continues to assist in crafting Countywide ordinance revisions pertaining to protecting water quality with revised Best Management Practices and Illicit Discharge and Detection Elimination. The Village in conjunction with the rest of the group will continue its efforts on Water Quality improvement such as NPDES Phase II requirements, Soil and Erosion Control and Floodplain Ordinance revisions, Best Management Practices Manual and NPDES Outfall mapping.

Site plan reviews greater than one acre and under NPDES Phase II are not only required to meet the County and the Village's ordinance, but also reviewed to satisfy many state requirements of the state ILR10 permit. These sites are required to pass an erosion and sediment controls inspection prior to disturbing the earth and are checked regularly by the engineering inspector.

Site plan reviews less than one acre are also required to meet the County and the Village's ordinance. Those permits receive attached details indicating how erosion and sediment controls are to be installed for small sites. Small sites are required to pass erosion and sediment controls inspection prior to disturbing the earth and are checked by building inspectors during most of the construction.

The Village issued Ten (10) stormwater permits during the 2013 reporting year.

E. Post-Construction Runoff Control

☐ **E.1 Community Control Strategy**
☒ **E.2 Regulatory Control Program**
☐ **E.3 Long Term O&M Procedures**
☒ **E.4 Pre-Const Review of BMP Designs**
☒ **E.5 Site Inspections during Construction**
☒ **E.6 Post-Construction Inspections**
☐ **E.7 Other Post-Const Runoff Controls**

ADDITIONAL VILLAGE COMPLETED TASKS:

Village of Addison staff is a regular attendee of the Municipal Engineer's Meeting Group and continues to assist in crafting Countywide ordinance revisions pertaining to protecting water quality with Post Construction Best Management Practices. The Village in conjunction with the rest of the group will continue its efforts on Water Quality improvement such as NPDES Phase II requirements, Soil and Erosion Control and Floodplain Ordinance revisions, Best Management Practices Manual and NPDES Outfall mapping.

Site plan reviews greater than one acre and under NPDES Phase II are required not only to meet the County and the Village's ordinance, but also reviewed to satisfy many state requirements of the state ILR10 permit.

The BMP manual developed by a private consultant for the Countywide ordinance was adopted in 2008. The manual includes educational narratives, a BMP selection guidance, and technical specifications that appropriately reflect the county's urban setting, winter season, poorly draining soils, and flat topography. The Village has since required applicable sites to incorporate BMP's into the proposed plans. References are provided to developers for implementation of permanent, post-construction BMP's.

Before accepting a completed project the Village requires record drawings to be approved and an environmental report, as necessary, be submitted. Final inspections are also performed to determine whether installed structures perform as designed and within Village parameters. Small sites also are required to provide post construction erosion and sediment controls such as sod or blanket in the parkway and swales prior to occupancy.

F. Pollution Prevention/Good Housekeeping

☒ **F.1 Employee Training Program**
☒ **F.2 Inspection and Maintenance Program**
☒ **F.3 Municipal Operations Storm Water Control**
☒ **F.4 Municipal Operations Waste Disposal**
☐ **F.5 Flood Management/Assess Guidelines**
☐ **F.6 Other Municipal Operations Controls**

ADDITIONAL VILLAGE COMPLETED TASKS:

Catch basin cleaning continues approximately every four years for storm sewer systems and more or less every year for combined sewer systems. Street sweeping continues on a regular basis with all streets swept at least two times a year.

A training session on storm water pollution prevention was held with all Public Works employees on October 22, 2013. This year the training focused on Village of Addison's Chloride Reduction Program. Representatives of the Park District and School Districts were also invited and in attendance.

A summary of the reportable data for several of the municipal activities is as follows on the following page:

ANNUAL MS4 REPORT – MUNICIPAL OPERATIONS REPORT
TIME PERIOD: MARCH 1, 2013 TO MARCH 1, 2014

Street Sweeping (Minimum Control F.3):

3,596 Curb miles cleaned

565 Tons of debris removed from streets

Salt Usage (Minimum Control F.3):

1,765.4 Tons of salt used

16 Number of snow events (2" or greater)

22 Number of ice events

46.5 Tons of salt used per event

Sewer Catch Basin Cleaning (Minimum Control F.3):

360 # of Storm Sewer Catch Basins/Inlets cleaned and pumped (out of approx. 2200)

145 # of Combined Sewer Catch Basins/Inlets cleaned and pumped (out of approx. 160)

Training (Minimum Control F.1):

√ Completed annual Good Housekeeping/P2 training with all Public Works employees (Date: 10/22/13)

√ Completed annual Salt Usage/Salt Loading training (Date: Various)

√ Completed initial and new employee training on Job Task Pollution Prevention

SECTION C: Attach results of information collected and analyzed, including monitoring data, if any, during the reporting period.

See Attached Data.

SECTION D: Attach a summary of the stormwater activities you plan to undertake during the next reporting cycle (including an implementation schedule).

A. Public Education and Outreach

The Village, as time and knowledge allows, will continue to develop educational handouts related to storm water discharges and protecting and maintaining water quality discharged into the waterways. Community events will be offered to local groups from time to time.

The Village of Addison will continue to distribute various brochures produced by DuPage County. The Village's electronic monthly newsletter will also periodically include educational information released by the County.

B. Public Participation/Involvement

The Village of Addison, in conjunction with the Conservation Foundation, will coordinate two local River Sweep events. One planned with the community will coincide with the County event in May, and a second collection day will be arranged with Boy Scout Troop #410.

Water monitoring kits will continue to be distributed to science students at Addison Trail High School. Sampling will be initiated at several key outfalls. The students will continue to collect and analyze samples in the fall and spring of each year as time permits.

The Village will continue to meet and participate in the Municipal Engineer's Meeting Group and the DuPage County Water Quality Stakeholder Committee. Both groups meet on a regular basis to review and discuss program development as it pertains to storm water discharges and water quality. Discussions will include best management practices, illicit discharge detection and elimination, or other relevant discussions.

In the next reporting year, the BMP manual revision to the Ordinance and Technical Guidance Document to the Stormwater Management Committee will continue to be implemented.

C. Illicit Discharge Detection and Elimination

The development of an illicit discharge detection and elimination (IDDE) program has been completed and a local IDDE manual has been submitted with the 2008 Notice of Intent. The IDDE program was fully implemented in March 2008. The IDDE program includes a prioritization plan, outfall screening/monitoring program, tracing, enforcement, and reporting.

The Village will continue to inspect and monitor the 18 primary storm sewer/waterway locations on a continuous basis. In addition, the Village of Addison will visually inspect all 58 outfalls in our jurisdiction over the next reporting period.

D. Construction Site Runoff Control

The BMP related Ordinance changes have been adopted and Village staff have attended training workshops as offered by the DuPage County Water Quality Education Program. The Village will continue to conduct a minimum of two inspections for construction runoff site control per storm water permit issued.

E. Post-Construction Runoff Control

The Village will continue to use the Water Quality Stakeholder committee and Municipal Engineers Meeting Group to evaluate problematic areas of the post construction BMPs being utilized in DuPage County and make recommendations where necessary.

F. Pollution Prevention/Good Housekeeping

Training will be provided at least annually with the entire Public Works staff to review storm water impacts from each of the divisions' municipal operations. Training typically covers an overview of Addison's "Storm Water Pollution Prevention and Good Housekeeping Manual" and review of our chloride reduction programs. Training is typically held in the fall.

SECTION E: The 40 co-permittees listed in the cover letter rely on DuPage County to satisfy some of their permit obligations as applicable.

SECTION F: Attach a list of construction projects that your entity has paid for during the reporting period.

Village of Addison (ILR 40 MS4 Permit # 0227)

Location/Project Name	Category	Start Date – End Date
Storm Sewer Improvements – Various	Utility	Apr ‘13 – Nov ‘13
Motor Fuel Tax - Resurfacing	Transportation	Apr ‘13 – Aug ‘13
Swift Road (Collins Av to Army Trail Rd) - Resurfacing	Transportation	Jul ‘13 – Oct ‘13

ATTACHMENT

SECTION C

LOCATION: **48" @ ADDISON & LORRAINE**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	CHROME (Mg/L)	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/17/13	N	2:10PM	7.49	14.8	4.3	0.13	0.01	0.00	7.10		72.1	55.9	0.00
6/11/13	N	9:00AM	7.26	15.9	8.0	0.01	0.03		0.00		84.3	61.2	0.03
6/28/13	N	2:20PM	7.46	18.2	7.6	0.01	0.03			0.01	81.4	67.9	0.01
7/29/13	N	1:35PM	7.39	27.9	5.8	0.01	0.03				76.8	56.5	0.01
MAX			7.49	27.9	8.0	0.13	0.030	0.000	7.100	0.0	84.3	67.9	0.03
AVG.			7.40	19.2	6.5	0.04	0.025	0.000	3.550	0.0	78.7	60.4	0.01
MIN			7.26	14.8	4.3	0.01	0.010	0.000	0.000	0.0	72.1	55.9	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **REPUBLIC CURVE**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/16/13	N	1:45PM	6.94	17.4	5.5	0.06	0.01		8.00		72.1	55.9	0.00
6/11/13	N	10.00AM	6.97	16.5	5.4	0.01	0.01		0.00		84.3	61.2	0.03
7/8/13	N	8:40AM	6.26	18.3	6.8	0.03	0.01		0.00		85.9	70.8	0.36
7/29/13	N	2:15PM	7.10	20.9	7.0	0.04	0.01		8.60		76.8	56.5	0.01
8/14/13	N	1:45PM	7.00	20.0	5.3	0.08	0.04		13.33		87.6	68.3	0.00
MAX			7.10	20.9	7.0	0.08	0.04		13.33		87.6	70.8	0.36
AVG.			6.85	18.6	6.0	0.04	0.02		5.99		81.3	62.5	0.08
MIN			6.26	16.5	5.3	0.01	0.01		8.00		72.1	55.9	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **54" @ ADDISON & ARMITAGE**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/20/13	N	1:50PM	7.72	16.8	7.5	0.01	0.01				78.6	74.6	0.00
6/11/13	N	10:34AM	7.73	17.4	7.0	0.03	0.01		4.00		84.3	61.2	0.03
7/11/13	N	1:10PM	7.71	18.4	9.6	0.03	0.05		0.00		79.8	61.6	0.00
7/29/13	N	1:50PM	7.73	19.2	5.4	0.01	0.01				76.8	56.5	0.01
MAX			7.73	19.2	9.6	0.03	0.05		4.00		84.3	74.6	0.03
AVG.			7.72	18.0	7.4	0.02	0.02		2.00		79.9	63.5	0.01
MIN			7.71	16.8	5.4	0.01	0.01		0.00		76.8	56.5	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **24"@ LAKE STREET**

DATE	PHYS. COND.*	TIME	pH	TEMP (C°)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/24/13	NF	9:00 AM									60.7	47.7	0.02
6/4/13	NF	10:00AM									58.0	47.4	0.00
7/22/13	NF	10:40AM									84.0	70.1	0.00
8/12/13	NF	1:50PM									85.9	56.3	0.00
MAX											85.9	70.1	0.02
AVG.											72.2	55.4	0.01
MIN											58.0	47.4	0.00

NF-NO FLOW

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **LAKE MANOR POND**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	AMMON (Mg/L)	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/14/13	N	1:10PM	7.32	15.3	7.90	0.01	0.01	0.00	8.00		63.1	53.5	0.00
6/21/15	N	2:20PM	6.70	21.3	5.50	0.04	0.01	0.01	2.00	0.40	83.2	68.8	0.25
7/15/13	N	2:30PM	8.08	30.3	5.60	0.01	0.04		10.00		91.6	72.0	0.24
MAX			8.08	30.3	7.90	0.04	0.0	0.01	10.00	0.40	91.6	72.0	0.25
AVG.			7.39	25.8	5.55	0.03	0.0	0.01	6.00	0.40	79.3	64.8	0.25
MIN			6.70	21.3	5.50	0.01	0.0	0.00	2.00	0.40	63.1	53.5	0.24

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **36" @ PALMER (AJL PLANT)**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^0)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/24/13	NF	10:00AM									60.7	47.7	0.02
6/4/13	NF	09:50AM									58.0	47.4	0.00
7/22/13	NF	10:25AM									84.0	70.1	0.00
MAX											84.0	70.1	0.02
AVG.											67.6	55.1	0.01
MIN											58.0	47.4	0.00

NF-NO FLOW

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **FULLERTON CREEK @ FAIRBANKS**

DATE	PHYS. COND.*	TIME	pH	TEMP (C°)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/14/13	N	2:00PM	8.25	18.8	9.3	0.20	0.02		1.00		63.1	53.5	0.00
6/7/13	N	2:05PM	8.54	20.9	12.3	0.04	0.07	0.08	6.00		66.8	50.8	0.00
7/11/13	N	1:40PM	7.68	21.9	8.1				5.00		79.8	61.6	0.00
7/31/13	N	1:50PM	7.52	21.4	6.3	0.06	0.05				75.3	63.5	0.31
MAX			8.54	21.9	12.3	0.20	0.07	0.08	6.00		79.8	63.5	0.31
AVG.			8.00	20.8	9.0	0.10	0.05	0.08	4.00		71.3	57.4	0.08
MIN			7.52	18.8	6.3	0.04	0.02	0.08	1.00		63.1	50.8	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **FULLERTON CREEK @ STEWART**

DATE	COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/14/13	N	1:40PM	7.54	23.1	10.0	0.12	0.01				63.1	53.5	0.00
6/7/13	N	2:25PM	7.05	23.1	5.7	0.01	0.13	0.03	8.33		66.8	50.8	0.00
6/19/13	N	8:50AM	7.22	18.3	4.4			0.00	7.00		74.7	52.2	0.00
7/11/13	N	1:25PM	7.68	21.9	8.1				11.67		79.8	61.6	0.00
7/31/13	N	2:15PM	7.06	21.1	5.6			2.00	6.75		75.3	63.5	0.31
MAX			7.68	23.1	10.0	0.12	0.13	2.00	11.67		79.8	63.5	0.31
AVG.			7.31	21.5	6.8	0.07	0.07	0.68	8.44		71.9	56.3	0.06
MIN			7.05	18.3	4.4	0.01	0.01	0.00	6.75		63.1	50.8	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **WESTWOOD CREEK @ LENORE**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/20/13	N	1:30PM	8.05	25.70	12.44	0.06	0.01		8.00		78.6	74.6	0.00
5/29/13	N	9;30AM	7.27	18.60	6.57	0.01	0.03	0.00			67.1	64.2	0.05
6/28/13	N	1:45PM	7.46	18.20	7.63	0.01	0.03				81.4	67.9	0.01
7/29/13	NF	1:00PM									76.8	56.5	0.00
8/21/13	N	1:00PM	7.11	19.70	7.23	0.04	0.03				88.0	65.8	0.00
		NF-NO FLOW											
MAX			8.05	25.70	12.44	0.06	0.03	0.00	8.00		88.0	74.6	0.05
AVG.			7.47	20.55	8.47	0.03	0.03	0.00	8.00		78.4	65.8	0.01
MIN			7.11	18.20	6.57	0.01	0.01	0.00	8.00		67.1	56.5	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **72" @ ODEUM**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^0)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/20/13	N	2:30PM	7.21	25.9	7.2	0.03	0.01		78.6	74.6	0.00
6/19/13	N	8:00AM	6.99	19.6	6.3	0.03	0.01		74.7	52.2	0.00
7/22/13	NF	10:20AM							84.0	70.1	0.00
MAX			7.21	25.9	7.2	0.03	0.01		84.0	74.6	0.00
AVG.			7.10	22.8	6.8	0.03	0.01		79.1	65.6	0.00
MIN			6.99	19.6	6.3	0.03	0.01		74.7	52.2	0.00

* N-Normal S-Sheen F-Foam C-Colored

NF= NO FLOW

LOCATION: **DAPS**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/24/13	NF	08:50AM							60.7	47.7	0.02
7/22/13	NF	10:30AM							84.0	70.1	0.00
8/12/13	NF	1:43PM							85.9	56.3	0.00
MAX									85.9	70.1	0.02
AVG.									76.9	58.0	0.01
MIN									60.7	47.7	0.00

NF-NO FLOW

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **48" @ NORTH PLANT PUMP & DAM**

DATE	PHYS. COND.*	TIME	pH	TEMP (C°)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
6/4/13	NF	08:00AM							58	47	0.00
7/22/13	NF	09:30AM							84	70	0.00
MAX									84.0	70.1	0.00
AVG.									71.0	58.8	0.00
MIN									58.0	47.4	0.00

NF= NO FLOW

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **STEWART POND EFF.**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/21/13	N	1:35PM	7.55	24.6	6.9	0.01	0.03			79.0	64.0	0.28
6/11/13	N	9:30AM	9.10	22.4	6.5	0.04	0.01			84.3	61.2	0.03
6/19/13	N	9:20AM	7.96	20.7	5.8	0.06	0.01			74.7	52.2	0.00
7/15/13	N	1:30PM	7.45	30.0	5.6	0.01	0.04	11.60		91.6	72.0	0.24
8/14/13	N	1:20PM	7.66	22.1	7.2	0.04	0.01	0.00		87.6	68.3	0.00
MAX			9.10	30.0	7.2	0.06	0.04	11.60		91.6	72.0	0.28
AVG.			7.94	24.0	6.4	0.03	0.02	5.80		83.4	63.5	0.11
MIN			7.45	20.7	5.6	0.01	0.01	0.00		74.7	52.2	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **24" SOUTH OF LORRAINE**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
MAX											
AVG.											
MIN											

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **OPUS EFF.**

DATE	PHYS. COND.*	TIME	pH	TEMP (C°)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/21/13	N	2:10PM	8.99	25.8	10.8	0.04	0.01	11.60		79.0	64.0	0.28
6/7/13	N	1:20PM	9.06	22.9	22.9	0.10	0.03	14.30		66.8	50.8	0.00
7/8/13	N	9:00AM	7.23	23.3	5.8	0.01	0.01	0.00		85.9	70.8	0.36
8/5/13	N	2:05PM	8.88	25.8	9.5	0.03	0.01	0.00		74.2	58.0	0.06
MAX			9.06	25.8	22.9	0.10	0.03	14.30		85.9	70.8	0.36
AVG.			8.54	24.5	12.2	0.05	0.02	6.48		76.5	60.9	0.18
MIN			7.23	22.9	5.8	0.01	0.01	0.00		66.8	50.8	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **42" SOUTH OF CHERRY HILL**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	NITRATE (Mg/L)	AMMON (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/24/13	N	09:30AM	7.57	12.7	8.3			9.00	0.40		60.7	47.7	0.02
6/19/13	NF	08:15AM									74.7	52.2	0.00
7/22/13	N	10:10AM	7.83	23.9	7.1						84.0	70.1	0.00
8/12/13	NF	1:15PM									85.9	56.3	0.00
MAX			7.83	23.9	8.3			9.0	0.40		85.9	70.1	0.02
AVG.			7.70	18.3	7.7			9.0	0.40		76.3	56.6	0.01
MIN			7.57	12.7	7.1			9.0	0.40		60.7	47.7	0.00

NF-NOFLOW

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **WESTWOOD CREEK @ HOLTZ**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^{O})	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	AMMONIA (Mg/L)	NITRATE (Mg/L)	PHOS (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/24/13	N	10:45AM	7.73	17.3	8.0				0.00			60.7	47.7	0.02
6/4/13	N	10:40AM	7.56	18.9	7.9			0.20	0.33			58.0	47.4	0.00
6/21/13	N	2:20PM	6.70	21.3	5.5	0.04	0.01	0.40		2.00		83.2	68.8	0.25
8/5/13	N	2.25PM	7.80	22.7	7.3			0.00	0.00			74.2	58.0	0.06
MAX			7.80	22.7	8.0	0.04	0.01		0.33	2.00		83.2	68.8	0.25
AVG.			7.45	20.1	7.2	0.04	0.01		0.11	2.00		69.0	55.5	0.08
MIN			6.70	17.3	5.5	0.04	0.01		0.00	2.00		58.0	47.4	0.00

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **18" @ CHERRY HILL/VILLA AVE.**

DATE	PHYS. COND.*	TIME	pH	TEMP (C^o)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
6/19/13	NF	08:20AM							74.7	52.2	0.00
7/22/13	NF	10:15AM							84.0	70.1	0.00
8/12/13	NF	1:30PM							85.9	56.3	0.00
MAX									85.9	70.1	0.00
AVG.									81.5	59.5	0.00
MIN									74.7	52.2	0.00

NF-NO FLOW

* N-Normal S-Sheen F-Foam C-Colored

LOCATION: **MYRIC PUMP STATION**

DATE	PHYS. COND.*	TIME	pH	TEMP (C°)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	ZINC (Mg/L)	PETROL. HYDRO.	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP.
5/24/13	NF	10:05AM							60.7	47.7	0.02
7/22/13	NF	10:30AM							84.0	70.1	0.00
8/12/13	NF	1:40PM							85.9	56.3	0.00
MAX									85.9	70.1	0.02
AVG.									76.9	58.0	0.01
MIN									60.7	47.7	0.00

* N-Normal S-Sheen F-Foam C-Colored

NF- NO FLOW

LOCATION: **DAVEA POND**

DATE	PHYS. COND.*	TIME	pH	TEMP (C°)	DIS. OXY. (Mg/L)	COPPER (Mg/L)	PHOS (Mg/L)	ZINC (Mg/L)	LAST 24 HRS HIGH TEMP.	LAST 24 HRS LOW TEMP.	LAST 24 HRS PRECIP
5/16/13	N	1:25PM	8.99	9.0	12.11	0.01	6.00	0.01	72.1	55.9	0.00
6/7/13	N	1:45PM	9.06	21.2	13.08	0.01		0.01	66.8	50.8	0.00
7/15/13	N	1:00PM	9.52	31.6	9.58	0.03		0.01	91.6	72.0	0.24
8/5/13	N	1:45PM	9.35	24.5	12.07	0.08	1.66		74.2	58.0	0.06
MAX			9.52	31.6	13.08	0.08	6.00	0.01	91.6	72.0	0.24
AVG.			9.52	21.6	11.71	0.03	3.83	0.01	76.2	59.2	0.08
MIN			8.99	9.0	9.58	0.01	1.66	0.01	66.8	50.8	0.00

* N-Normal S-Sheen F-Foam C-Colored