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Transmitted via Electronic Mail

Mr. Chris Black
U.S. Environmental Protection Agency – Region 5
Land and Chemicals Division
77 W. Jackson Blvd. DE-97
Chicago, IL 60604-3590

ENVIRONMENT

Subject:
Second Quarter 2014 Progress Report (No. 12)
Revitalizing Auto Communities Environmental Response (RACER) Trust
Buick City Site, Flint, Michigan

Date:
July 15, 2014

Contact:
Micki M. Maki, P.E.

Dear Mr. Black:

Phone:
248.994.2271

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, ARCADIS is submitting this Second Quarter 2014 Progress Report (No. 11) in accordance with Section VI (18b) of the RACER Trust's Administrative Order on Consent (Consent Order), Docket Number RCRA-05-2011-0024 for the Buick City Site located in Flint, Michigan (the Site), which was effective on September 29, 2011.

Email:
[Micki Maki@arcadis-us.com](mailto:Micki.Maki@arcadis-us.com)

Please note that in accordance with General Motors Corporation's Administrative Order on Consent Number R8H-5-00-02 for the North American Operations [NAO] Flint Operations Site (also known as Buick City) Quarterly Progress Reports No.1 through 46 were submitted to the United States Environmental Protection Agency (EPA) documenting Site activities from January 1, 2000 through June 30, 2011.

Our ref:
B0064410.2014

This Second Quarter 2014 Progress Report (No. 12) covers the period of April 1, 2014 through June 30, 2014.

The following briefly summarizes the work performed and data collected, problems encountered, project schedule, and estimated percent complete for a list of activities.

1. Data Collected This Quarter

The samples collected as part of Site investigation or monitoring activities during this quarter are discussed below. This data will be presented to the EPA in the 2014 Annual CMI Report, except as noted below.

1.1 Storm Sewer Water Samples

In May and June, ARCADIS conducted the “NPDES Plus” Monitoring Program (NPMP) sampling program. No samples were able to be collected in April due to precipitation. The NPMP typically consists of collecting monthly samples from the following Site storm sewers as access allows MP001, MP003, MP006, MP009, MP010, MP011, and MP013. During the June sampling event additional samples were conducted at upgradient and midpoint samples were collected per the EPA approved Additional NPDES Plus Monitoring Program Sampling Work Plan. The proposed outfall sampling was unable to be completed as the elevation of the river was too high. The outfall sampling will be completed when possible. The NPMP data will be included in the annual CMI Report.

As required per Part 1, Section A 2 in the current National Pollution Discharge Elimination System (NPDES) Permit No. MI0001597, weekly composite samples were collected from Monitoring Point 003A. This data will be included in the 2013 Yearly Pollutant Minimization Plan (PMP) for PCBs report, which will be submitted to the MDEQ as required in the NPDES permit.

1.2 Soil Samples

In May, ARCADIS collected confirmation soil samples as part of the excavation of the manganese impacts in soil at Northern Parcel. A total of 56 soil samples were collected from excavation floors and sidewalls and submitted for laboratory analysis. This data will be included in a brief summary report.

1.3 AOI 09-B System Samples

The MPE system was re-started on April 9, 2014. ARCADIS collected samples from the AOI 09-B Multiphase Extraction (MPE) system as required by the City of Flint Sanitary Use Permit #2-02-RBC001. In accordance with the permit four grab samples and one composite sample are collected from the system effluent line on a monthly basis. The composite sample is submitted for laboratory analysis of ammonia-nitrogen, BOD, total phosphorous, total suspended solids, metals, SVOCs, and PCBs and the grab samples were submitted for laboratory analysis of hexane extractable material (HEM), amenable cyanide, and VOCs plus xylenes. This data is

submitted to the City of Flint on a monthly basis in the AOI 09-B Monthly Discharge Report.

In April, May, and June, additional system samples were collected to monitor system performance. Grab samples were collected from the carbon influent, carbon midfluent, and system influent sample ports. Samples from these three locations are submitted on a monthly basis for laboratory analysis of BTEX, VOCs, xylenes, and/or gasoline range organics.

In April, during system startup activities, an additional grab sample was collected from various process locations for treatment process verification. This samples was submitted for laboratory analysis of ammonia-nitrogen, BOD, total phosphorous, total suspended solids, metals, SVOCs, HEM, amendable cyanide, VOCs, xylenes, BTEX, gasoline range organics, and/or PCBs.

In April, May, and June, monthly air samples were collected from the AOI 09-B Multiphase Extraction (MPE) system as required by the Michigan Department of Environmental Quality (MDEQ) Permit # 165-11. Samples were collected from the Thermal Oxidizer influent piping. Additional samples were collected on April 25, 2014 and May 14, 2014 for the startup period. For endpoint verification, samples were collected on a weekly basis June 9, 2014 through June 30, 2014. This data is submitted to the MDEQ on a monthly basis in the AOI 09-B Monthly Air Report.

2. Work Performed This Quarter

Attachments 1, 2, and 3 present the monthly Site progress reports for April, May, and June that document the work performed this quarter.

3. Problems Encountered

As mentioned in Section 1.1, wet weather conditions in April prevented the collection of NPMP samples and the high river elevation prevented the collection of the outfall samples. No other problems were encountered.

4. Project Schedule – Near-Term Milestone Activities Anticipated During the Next Quarter

A projected field work schedule for the third and fourth quarter of 2014 is included in Attachment 4.

4.1 Routine Work

Task 1 *Outfall 003/004 Oil Removal Systems*

- Continue OMM inspections of system.

Task 6 *Maintain Booms on Outfalls*

- Continue to perform inspections and maintenance (as necessary) of Outfalls 002, 003, 004, and 005. Dispose of waste as necessary.
- Continue to perform inspections of Oil Interceptor #2.

Task 8 *NPDES PLUS Monitoring*

- Perform NPMP monitoring in July, August, and September.

Task 12 *Agency Coordination/Negotiation, Reporting, Project Management*

- Continue to participate in regulatory agency calls.
- Prepare Quarterly Report for submittal to EPA.
- Complete Annual CMI report.

Task 13 *Outfall 002/005 Oil Minimization & Investigation*

- Continue quarterly P-trap inspections.

Task 15 *LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation*

- Continue OM&M phase of Outfall 002 passive recovery trench.

4.2 Non-Routine Work

Task 1 *Outfall 003/004 Oil Removal System*

- Perform annual maintenance event of Outfall 003/004 Oil Removal System. Dispose of waste as necessary.

Task 2 *LNAPL Investigation*

- Complete additional investigation of LNAPL areas and impacts.
- Complete evaluation of Site data to aid in selecting methods and locations for additional LNAPL pilot testing.
- Finalize Remedy Recommendation report.

Task 3 *LNAPL Recovery Bench and Field-Scale Testing*

- Propose pilot testing activities to EPA for approval.

Task 6 Maintain Booms on Outfalls

- Perform maintenance event of Oil Interceptor #2. Dispose of waste as necessary.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Finalize remedy recommendations memos for waste management units (WMU) #3, #7, and #10 to be incorporated in Remedy Recommendation report.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Complete review of re-routing options for Outfall 004 and 013 storm sewer with the City of Flint.

Task 15 LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation

- Continue OM&M phase of AOI 09-B LNAPL remediation system.

5. Estimated Percent Complete

Task 1 Outfall 003/004 Oil Removal Systems

- Outfall 003/004 Oil removal System OM&M – Ongoing

Task 2 LNAPL Investigation

- LNAPL LIF Investigations – 100%
- Southend Natural Source Zone Depletion Study – 100%
- Southend Transmissivity Testing – 100%
- Northend Natural Source Zone Depletion Study – 90%
- Northend Transmissivity Testing – 75%
- Additional LNAPL Investigation – 80%

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- LNAPL Bench Scale Testing – 25%
- LNAPL Pilot Scale Testing – 33%

Task 7 Enhanced Groundwater Monitoring

- Groundwater Monitoring – Ongoing

Task 8 NPDES PLUS Monitoring

- NPDES PLUS Monitoring – Ongoing

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Northend RCRA WMU Closures – 90%
- Southend RCRA WMU Closures – 90%
- Northend Restrictive Covenant – 0%
- Southend Restrictive Covenant – 90%
- Monitoring Well Abandonments – 5%
- UST Issue Resolution – 100%

Task 10 Maintain Select Surface Covers

- Maintain Select Surface Covers – Ongoing
- Installation of Additional Surface Cover – Southend – 100%

Task 11 Lead Soil Removal

- Lead Soil Removal – 100%
- Northern Parcel Investigation – 100%
- Northern Parcel Soil Removal – 100%

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- RFI Phase I Report - 100%
- RFI Phase II Report - 100%
- Human Health Exposure Control EI Report - 100%
- CA 750 Report - 100%
- Revised Corrective Measures Proposal (CMP), May 1, 2008 – 100%
- Revised CMP Addendum No. 1 – 100%
- Southend Corrective Measures Implementation (CMI) Work Plan – 100%
- Revised CMP Addendum No. 2 – Northend and Site-wide Groundwater - 100%

- Revised CMP Addendum No. 2-1 – Response to EPA Comments - 100%
- 2012 CMI Annual Report – 100%
- 2013 CMI Annual Report – 80%

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Outfall 002 Storm Sewer Evaluation - 100%
- Outfall 003 Storm Sewer Evaluation – 50%
- Outfall 004 Re-route into Outfall 013 Evaluation - 90%
- Outfall 005 Storm Sewer Evaluation – 100%
- Outfall 002 Final Measure Implementation– 90%
- Outfall 003 Final Measure Implementation – 25%
- Outfall 005 Final Measure Implementation – 90%
- Outfall 007 Final Measure Implementation – 100%

Task 14 Address 15 Areas of Subsurface LNAPL

- Address 15 Areas of LNAPL – 7%
 - AOI 09-B System Design, Permitting, and Construction – 100%

Task 15 LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation

- LNAPL Recovery OM&M – 25%
- Secondary LNAPL Remediation – 0%

6. Budget Status

- 2014 Budget – The 2014 Budget Request was approved by the EPA on December 16, 2013.
- 2014 Budget Amendment No. 1 – Budget Amendment No. 1 was approved by the EPA on March 7, 2014.
- 2014 Budget Modification – Budget Modification was approved by the EPA on May 23, 2014.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in blue ink that reads "Micki M. Maki".

Micki Maki, P.E.
Project Manager

Copies:

Peter Quackenbush, Michigan Department of Environmental Quality, (via email)
William Yocum, Michigan Department of Environmental Quality (via email)
Flint Public Library
Grant Trigger, RACER Trust (via email)
Dave Favero, RACER Trust (via email)

Attachments:

Attachment 1 – April 2014 Project Update - RACER Buick City Site
Attachment 2 – May 2014 Project Update - RACER Buick City Site
Attachment 3 – June 2014 Project Update - RACER Buick City Site
Attachment 4 – RACER Buick City Field Schedule – 3rd and 4th Quarter 2014



Attachment 1

April 2014 Project Update



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MEMO

To:
Chris Black, USEPA

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Christi Kiker, ARCADIS

From:
Micki Maki

Date:
June 30, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
April 2014 Project Update - RACER Buick City Site, Flint, Michigan

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, ARCADIS is submitting this April 2014 Project Update to provide a brief summary of work performed at the Buick City Site (the Site) from April 1, 2014 through April 30, 2014.

Task 1 - Outfall 003/004 Oil Removal Systems

Routine Work

- Continued operations, maintenance, and monitoring (OMM) activities on the 003/004 system. Inspections are being performed once per week to ensure that the system is running properly and to determine if any system modifications are warranted to optimize system performance.

Non - Routine Work

- No work performed.

Task 2 - LNAPL Investigation

Routine Work

- No work performed.

Non - Routine Work

- Continued development of Remedy Recommendation memos.
- Developed a draft 24 month schedule for site activities.
- Continued development and drafting of conceptual site model cross sections.

Task 3 - LNAPL Recovery Bench and Field-Scale Testing

Routine Work

- No work performed.

Non - Routine Work

- No work performed.

Task 4 - Operate Fact. 10 LNAPL/GW System

- Task Completed.

Task 5 - Operate Fact. 36 LNAPL/GW System

- Task Completed.

Task 6 - Maintain Booms on Outfalls

Routine Work

- Performed inspections and maintenance (as necessary) of Outfalls 002, 003, 004, and 005. Disposed of waste as necessary.
- Performed inspections of Oil Interceptor #2.

Non - Routine Work

- Performed maintenance cleaning event of Oil Interceptor #2.

Task 7 - Enhanced Groundwater Monitoring

Routine Work

- Continued preparation of annual groundwater monitoring report.

Non - Routine Work

- Submitted the Notice of Migration (NOM) pertaining to AOI 83/84-5 LNAPL Area.

Task 8 - NPDES PLUS Monitoring

Routine Work

- Completed the monthly NPDES Plus Monitoring event.

Non - Routine Work

- Continued evaluation of the mercury exceedances.
- Finalize and submit additional upgradient sampling work plan to the EPA for approval.
- Investigate Outfall 001 in preparation of upcoming activities and address condition issues.
- Complete Traffic control permits with the City of Flint.

Task 9 - RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

Routine Work

- No work performed.

Non - Routine Work

- No work performed.

Task 10 – Maintain Select Surface Covers

Routine Work

- No work performed.

Non - Routine Work

- No work performed.

Task 11 - Lead Soil Removal

Routine Work

- No work performed.

Non - Routine Work

- Assisted with Northern Parcel sale documents.
- Prepared an air monitoring and sampling work plan.
- Reviewed Northern Parcel Manganese Soil Removal bids, awarded contract, and prepared for field activities.

Task 12 - Agency Coordination/Negotiation, Reporting, Project Management

Routine Work

- Prepared the Quarterly EPA Report.
- Continued preparation of the 2013 CMI Report.

Non - Routine Work

- Attended EPA meeting to discuss remedy recommendations.

Task 13 - Outfall 002/005 Oil Minimization & Investigation

Routine Work

- Not Applicable.

Non - Routine Work

- Finalized Outfall 004 Reroute Summary Memo.
- Finalized and submitted the Outfall 002 and 005 Bulkheading Work Plan (Addendum #3) for EPA approval.
- Completed initial surveying in preparation for Outfall 003 storm sewer reroute feasibility study.
- Developed Outfall 003 feasibility study plan and cost estimate.
- Developed the Draft Outfall 004 Reroute Monitoring plan and submit to RACER for review.

Task 14 - Address 15 Areas of Subsurface LNAPL

Routine Work

- Not Applicable.

Non - Routine Work

- Continued to evaluate possible remedy selections for Outfall 003.
- Developed cost estimates for remedy selections

Task 15 - LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation

Routine Work

- Performed OMM activities on the Outfall 002 passive recovery trench.

Non - Routine Work

- Perform system startup and maintenance activities at the AOI-09-B multi-phase extraction (MPE) system.
- Finalize Outfall 002 passive recovery trench summary memo.



Attachment 2

May 2014 Project Update



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MEMO

To:
Chris Black, USEPA

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Christi Kiker, ARCADIS

From:
Micki Maki

Date:
June 30, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
May 2014 Project Update - RACER Buick City Site, Flint, Michigan

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, ARCADIS is submitting this May 2014 Project Update to provide a brief summary of work performed at the Buick City Site (the Site) from May 1, 2014 through May 31, 2014.

Task 1 - Outfall 003/004 Oil Removal Systems

Routine Work

- Continued operations, maintenance, and monitoring (OMM) activities on the 003/004 system. Inspections are being performed once per week to ensure that the system is running properly and to determine if any system modifications are warranted to optimize system performance.

Non - Routine Work

- No work performed.

Task 2 - LNAPL Investigation

Routine Work

- No work performed.

Non - Routine Work

- Continued development of Remedy Recommendation memos.
- Continued development and drafting of conceptual site model cross sections.

Task 3 - LNAPL Recovery Bench and Field-Scale Testing

Routine Work

- No work performed.

Non - Routine Work

- Began developing AOI-36 pilot test work plan.

Task 4 - Operate Fact. 10 LNAPL/GW System

- Task Completed.

Task 5 - Operate Fact. 36 LNAPL/GW System

- Task Completed.

Task 6 - Maintain Booms on Outfalls

Routine Work

- Performed inspections and maintenance (as necessary) of Outfalls 002, 003, 004, and 005. Disposed of waste as necessary.
- Performed inspections of Oil Interceptor #2.

Non - Routine Work

- Completed Oil Interceptor #2 cleaning/maintenance event.

Task 7 - Enhanced Groundwater Monitoring

Routine Work

- Continued preparation of groundwater monitoring section of annual CMI report.

Non - Routine Work

- No work performed.

Task 8 - NPDES PLUS Monitoring

Routine Work

- Completed the monthly NPDES Plus Monitoring event.

Non - Routine Work

- Continued evaluation of the mercury exceedances.

Task 9 - RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

Routine Work

- No work performed.

Non - Routine Work

- No work performed.

Task 10 – Maintain Select Surface Covers

Routine Work

- No work performed.

Non - Routine Work

- No work performed.

Task 11 - Lead Soil Removal

Routine Work

- No work performed.

Non - Routine Work

- Completed Northern Parcel manganese soil excavation project.

Task 12 - Agency Coordination/Negotiation, Reporting, Project Management

Routine Work

- Prepared the Monthly EPA update memo.
- Continued preparation of the 2013 CMI Report.

Non - Routine Work

- Obtain final lien waivers for 2013 invoices.

Task 13 - Outfall 002/005 Oil Minimization & Investigation

Routine Work

- Not Applicable.

Non - Routine Work

- Coordinated installation of Outfall 003 flow monitoring devices and began flow study.
- Prepared Outfall 002 and 005 Bulkheading Work Plan (Addendum #4) for RACER review.
- Began bulkheading and manhole capping activities in accordance with the Outfall 002 and 005 Bulkheading Work Plan (Addendum #2 & #4).
- Prepared Outfall Exit Strategy memo.

Task 14 - Address 15 Areas of Subsurface LNAPL

Routine Work

- Not Applicable.

Non - Routine Work

- Continued evaluate possible remedy selections for Outfall 003.

Task 15 - LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation

Routine Work

- Performed operations, maintenance, and monitoring (OMM) activities on the AOI-09B system. Free product and groundwater removal is summarized below.
 - Removal as follows:

Substance	May Removal	Total Removal
Free Product (Measured)	0 gallons	135 gallons
Vapor Phase Mass (Estimated)	51 pounds	2.060 pounds
Groundwater Discharge (Measured)	168,393.8 gallons	990,127.9 gallons

- Performed OMM activities on the Outfall 002 passive recovery trench.

Non - Routine Work

- No work performed.



Attachment 3

June 2014 Project Update



ARCADIS of Michigan, LLC
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MEMO

To:
Chris Black, USEPA

Copies:
Grant Trigger, RACER
Dave Favero, RACER
Christi Kiker, ARCADIS

From:
Micki M. Maki

Date:
July 14, 2014

ARCADIS Project No.:
B0064410.2014

Subject:
June 2014 Project Update - RACER Buick City Site, Flint, Michigan

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, ARCADIS is submitting this June 2014 Project Update to provide a brief summary of work performed at the Buick City Site (the Site) from June 1, 2014 through June 30, 2014.

Task 1 - Outfall 003/004 Oil Removal Systems

Routine Work

- Continued operations, maintenance, and monitoring (OMM) activities on the 003/004 system. Inspections are being performed once per week to ensure that the system is running properly and to determine if any system modifications are warranted to optimize system performance.

Non - Routine Work

- Prepared PCB disposal determination email and submit for review.

Task 2 - LNAPL Investigation

Routine Work

- No work performed.

Non - Routine Work

- Continued development of Remedy Recommendation memos.
- Continued development and drafting of conceptual site models
- Continued addressing EPA comments on Remedy Recommendation Memos.
- Began evaluating vapor intrusion exceedances to determine areas of concern.
- Began preparing Supplemental Corrective Measures Implementation Work Plan.

Task 3 - LNAPL Recovery Bench and Field-Scale Testing

Routine Work

- No work performed.

Non - Routine Work

- Began preparing MPE pilot test work plan.

Task 4 - Operate Fact. 10 LNAPL/GW System

- Task Completed.

Task 5 - Operate Fact. 36 LNAPL/GW System

- Task Completed.

Task 6 - Maintain Booms on Outfalls

Routine Work

- Performed inspections and maintenance (as necessary) of Outfalls 002, 003, 004, and 005. Disposed of waste as necessary.
- Performed inspections of Oil Interceptor #2.

Non - Routine Work

- No work performed.

Task 7 - Enhanced Groundwater Monitoring

Routine Work

- Continued preparation of annual groundwater monitoring report.

Non - Routine Work

- Prepared the Notice of Migration (NOM) pertaining to AOI 83/84-5 LNAPL Area.

Task 8 - NPDES PLUS Monitoring

Routine Work

- Completed the monthly NPDES Plus Monitoring event.

Non - Routine Work

- Continued evaluation of the mercury exceedances and preparation of GSI strategy memo.
- Completed additional NPMP upgradient and midpoint sampling event.

Task 9 - RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

Routine Work

- No work performed.

Non - Routine Work

- No work performed.

Task 10 – Maintain Select Surface Covers

Routine Work

- Completed select surface covers inspection and documentation.

Non - Routine Work

- Began preparation of AOI-40 surface cover work plan.

Task 11 - Lead Soil Removal

Routine Work

- No work performed.

Non - Routine Work

- Began preparation of the Northern Parcel Manganese Soil Removal documentation report.

Task 12 - Agency Coordination/Negotiation, Reporting, Project Management

Routine Work

- Prepared the Monthly EPA update memo.
- Continued preparation of the 2013 CMI Report.

Non - Routine Work

- Attended EPA meeting.

Task 13 - Outfall 002/005 Oil Minimization & Investigation

Routine Work

- Not Applicable.

Non - Routine Work

- Continued bulkheading construction activities in accordance with the approved bulkheading work plans (Addendum 2 & 3).
- Prepared outfall exit strategy memo.

Task 14 - Address 15 Areas of Subsurface LNAPL

Routine Work

- Not Applicable.

Non - Routine Work

- Continued evaluation of possible remedies for Outfall 003.

Task 15 - LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation

Routine Work

- Completed the monthly monitoring well gauging at AOI-09-B.
- Collected vapor samples from the AOI-09-B system.

Non - Routine Work

- Finalized the AOI-09-B System Summary and Recommendation memo.
- Performed AOI-09-B multi-phase extraction (MPE) system cleaning and start up.



Attachment 4

RACER Buick City Field Schedule
– 3rd and 4th Quarter 2014

RACER Buick City 2014 Field Schedule Third and Forth Quarter 2014

ID	Task Name	Duration	Start	July 1		July 21		August 11		September 1		September 21		October 11		November 1		November 21		December 11		Ja				
				6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	10/5	10/12	10/19	10/26		11/2	11/9	11/16	11/23
1	REMEDIATION ACTIVITIES - Third and Forth Quarter	132 days	Tue 7/1/14	[Yellow bar]																						
2	Task 1 - Outfall 003/004 Oil Removal Systems	132 days	Tue 7/1/14	[Yellow bar]																						
3	Subtask 01 - Weekly Inspections	132 days	Tue 7/1/14	[Yellow bar]																						
4	Subtask 03 - Maintenance Event	15 days	Mon 8/4/14	[Yellow bar]																						
5	003/004 Maintenance Event	15 days	Mon 8/4/14	[Blue grid bar]																						
6	Task 2 - LNAPL Investigation	20 days	Tue 9/2/14	[Yellow bar]																						
7	Subtask 06- Miscellaneous LNAPL Evaluation/Testing	20 days	Tue 9/2/14	[Yellow bar]																						
8	Supplemental Investigation	20 days	Tue 9/2/14	[Green hatched bar]																						
9	Task 3 - Benchscale/pilot testing	70 days	Mon 2/17/14	[Yellow bar]																						
10	AOI 36 Pilot Test	15 days	Mon 9/8/14	[Blue grid bar]																						
11	Task 6 - Maintain Booms on Outfalls	195 days	Wed 1/1/14	[Yellow bar]																						
12	Subtask 00 - Oil Interceptor #2 Inspection and Waste Removal	132 days	Tue 7/1/14	[Yellow bar]																						
13	Subtask 01 - Outfall Boom Inspections and Maintenance	132 days	Tue 7/1/14	[Yellow bar]																						
14	Task 7 - Enhanced Groundwater Monitoring	10 days	Mon 8/25/14	[Yellow bar]																						
15	2014 Annual Groundwater Monitoring Event	10 days	Mon 8/25/14	[Yellow bar]																						
16	Task 8 - NPDES PLUS Monitoring	195 days	Wed 1/1/14	[Yellow bar]																						
17	Subtask 01 - NPDES Plus Monitoring	107 days	Mon 7/7/14	[Yellow bar]																						
18	July NPMP Sampling Event	1 day	Mon 7/7/14	[Yellow dot]																						
19	August NPMP Sampling Event	1 day	Tue 8/5/14	[Yellow dot]																						
20	September NPMP Sampling Event	1 day	Wed 9/3/14	[Yellow dot]																						
21	October NPMP Sampling Event	1 day	Tue 10/7/14	[Yellow dot]																						
22	November NPMP Sampling Event	1 day	Tue 11/4/14	[Yellow dot]																						
23	December NPMP Sampling Event	1 day	Tue 12/2/14	[Yellow dot]																						
24	Subtask 02 - Mercury Investigation	30 days	Tue 9/9/14	[Yellow bar]																						
25	Field investigation	30 days	Tue 9/9/14	[Green hatched bar]																						
26	Task 10 - maintain Select Surface Cover	5 days	Mon 9/15/14	[Yellow bar]																						
27	Select Surface Cover Installation	5 days	Mon 9/15/14	[Red double bar]																						
28	Task 13 - Outfall 002/005 Oil Minimization & Investigation	10 days	Mon 8/4/14	[Yellow bar]																						
29	Subtask 02 - Outfall 002 & 005 Bulkhead implementation	10 days	Mon 8/4/14	[Yellow bar]																						
30	Bulkhead Implementation - Excavations	10 days	Mon 8/4/14	[Red double bar]																						
31	Task 15 - LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation	132 days	Tue 7/1/14	[Yellow bar]																						
32	Outfall 002 Passive Recovery Trench	132 days	Tue 7/1/14	[Yellow bar]																						
33	AOI 09-B MPE Recovery O&M	66 days	Tue 7/1/14	[Yellow bar] 0%																						
34	AOI 36-1 Preliminary System Installation Activities	30 days	Thu 11/20/14	[Blue grid bar]																						

Routine Task [Yellow bar] Non-Routine Task [Blue grid bar] Drilling Events [Green hatched bar] Construction Events [Red double bar]