

Appendix B. Newton County Water System Source Water Assessment Contaminant Inventory for Cornish Creek

IMZ (7 MILE RADIUS)		
POTENTIAL SOURCE	RELEASE POTENTIAL	RISK
<p><i>Nonpoint Source:</i> AGRICULTURAL AREAS</p>	<p>Utilizing Supplemental Guidance for Nonpoint Sources:</p> <ul style="list-style-type: none"> ▪ Some BMPs in place but not always properly implemented, ▪ Moderate livestock density, moderate topography, some buffers in place, ▪ Moderate pesticide use (medium) <p>Overall Release Potential = Medium</p>	<p>Utilizing Supplemental Guidance for Nonpoint Sources:</p> <ul style="list-style-type: none"> ▪ Agricultural area throughout intake watershed, ▪ Immediate proximity of surface water, medium density ag area ▪ Moderate toxicity <p>Overall Risk Potential = Medium</p>
<p><i>Nonpoint Source:</i> URBAN/RESIDENTIAL AREAS</p>	<p>Utilizing Supplemental Guidance for Nonpoint Sources:</p> <ul style="list-style-type: none"> ▪ Low density of urban area, low percent impervious surface (< 1 %), (low) ▪ Generally flat topography (low) <p>Overall Release Potential = Low</p>	<p>Utilizing Supplemental Guidance for Nonpoint Sources:</p> <ul style="list-style-type: none"> ▪ No Residential area near main stem or major tributary (low) ▪ Low toxicity & volume of urban runoff (low) <p>Overall Risk Potential = Low</p>
<p><i>Agricultural Waste Lagoon:</i> Boogers Hill Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = 1,000 - 10,000 gallons; small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - travel primarily through soil or via groundwater (low) ▪ <p>Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 3.4 miles (high) ▪ Toxicity - acute, pathogens, fecal coliform bacteria, ammonia (high) <p>Overall Risk Potential = High</p>

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<p><i>Confined Animal Feedlot:</i> Boogers Hill Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = approximately 1,000 - 10,000 gallons; small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - moderate topography, travel primarily through soil or via groundwater, some structural controls (low) <p align="center">Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 3.4 miles (high) ▪ Toxicity - secondary, taste, odor (low) <p align="center">Overall Risk Potential = Medium</p>
<p><i>Agricultural Waste Lagoon:</i> Cornish Chapel Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = 1,000 - 10,000 gallons; ▪ Small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - moderate topography, some structural controls (medium) <p align="center">Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 3.5 miles (high) ▪ Toxicity - acute, pathogens, fecal coliform bacteria, ammonia (high) <p align="center">Overall Risk Potential = High</p>
<p><i>Confined Animal Feedlot:</i> Cornish Chapel Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = approximately 1,000 - 10,000 gallons; ▪ Small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - moderate topography, travel primarily through soil or via groundwater, some structural controls (low) <p align="center">Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 4.0 miles (high) ▪ Toxicity - secondary, taste, odor (low) <p align="center">Overall Risk Potential = Medium</p>

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<p><i>Agricultural Waste Lagoons:</i> East Harris Rockmore Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water > 500 feet (low) ▪ Volume of release = 1,000 - 10,000 gallons; ▪ Small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - moderate topography, some structural controls (medium) <p align="center">Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 4.0 miles (high) ▪ Toxicity - acute, pathogens, fecal coliform bacteria, ammonia (high) <p align="center">Overall Risk Potential = High</p>
<p><i>Confined Animal Feedlot:</i> East Harris Rockmore Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = approximately 1,000 - 10,000 gallons; ▪ small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - travel primarily through soil or via groundwater (low) <p align="center">Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 4.1 miles (high) ▪ Toxicity - secondary, taste, odor (low) <p align="center">Overall Risk Potential = Medium</p>
<p><i>Agricultural Waste Lagoons:</i> West Harris Rockmore Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = 1,000 - 10,000 gallons; small receiving streams/tributaries (low) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - hilly topography, many runoff conveyances, overland flow likely (high) <p align="center">Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 4.1 miles (high) ▪ Toxicity - acute, pathogens, fecal coliform bacteria, ammonia (high) <p align="center">Overall Risk Potential = High</p>

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<p><i>Confined Animal Feedlot:</i> West Harris Rockmore Road</p>	<ul style="list-style-type: none"> ▪ Distance from surface water > 500 feet (low) ▪ Volume of release = approximately 1,000 - 10,000 gallons; ▪ small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - travel primarily through soil or via groundwater (low) <p align="center">Overall Release Potential = Low</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 4.1 miles (high) ▪ Toxicity - secondary, taste, odor (low) <p align="center">Overall Risk Potential = Medium</p>
<p><i>Airports:</i> POOLE FARM AIRPORT</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = < 1,000 gallons; ▪ Small receiving streams/tributaries (low) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - hilly topography, many runoff conveyances, overland flow likely (high) <p align="center">Overall Release Potential = Low</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 4.3 miles (high) ▪ Toxicity – chemicals, including fuels and ethylene glycol (medium) <p align="center">Overall Risk Potential = Medium</p>

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<p><i>Airports:</i> SUNSET STRIP AIRPORT</p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release = < 1,000 gallons; ▪ Small receiving streams/tributaries (low) ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - hilly topography, many runoff conveyances, overland flow likely (high) <p align="center">Overall Release Potential = Low</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 6.0 miles (high) ▪ Toxicity - chemicals, including fuels and ethylene glycol (medium) <p align="center">Overall Risk Potential = Medium</p>
<p><i>Gas Pipelines:</i> TRANSCONTINENTAL GAS PIPELINE CORPORATION</p>	<ul style="list-style-type: none"> ▪ Distance from surface water > 500 feet (low) ▪ Volume of release - < 1,000 gallons; small receiving stream (low) ▪ Duration of release - high likelihood of unanticipated one-time, catastrophic event (high) ▪ Ease of travel/transport - hilly topography, many runoff conveyances, overland flow ▪ very likely, valve structural controls in place, pipeline crosses tributaries many times (high) <p align="center">Overall Release Potential = Low</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake - within 7 miles (high) ▪ Toxicity - chronic, chemicals, but rapid loss due to volatilization (low) <p align="center">Overall Risk Potential = Low</p>
<p><i>Non-sewer (septic) Areas</i></p>	<ul style="list-style-type: none"> ▪ Distance from surface water - within 500 feet (high) ▪ Volume of release - low density of non-sewer areas (low) ▪ Small receiving streams/tributaries ▪ Duration of release - little likelihood of release, no reported releases (low) ▪ Ease of travel/transport - travel primarily through soil or via groundwater (low) <p align="center">Overall Release Potential = Low</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake - within 7 miles (high) ▪ Toxicity – acute, pathogens (high) <p align="center">Overall Risk Potential = High</p>

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<p><i>Roads adjacent to or bridges over streams</i></p> <p>PRIMARY ROADS: STATE HWY 81</p>	<ul style="list-style-type: none"> ▪ Distance from surface water = within 500 feet (high) ▪ Low density of road crossings (1) within 7 miles upstream of intake (low) ▪ Volume of release = 1,000 – 10,000 gallons, potential from tractor-trailer with small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of a release, no reported releases (low) ▪ Ease of travel/transport - road crossing streams, few structural controls in place (high) <p>Overall Release Potential = Low</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 4.3 miles (high) ▪ Toxicity – acute, chemicals from transport trucks (high) <p>Overall Risk Potential = High</p>
<p>SECONDARY ROADS, PAVED</p>	<ul style="list-style-type: none"> ▪ Distance from surface water = within 500 feet (high) ▪ Low density of secondary road crossings (20) within 7 miles upstream of intake (medium) ▪ Volume of release = 1,000 – 10,000 gallons, potential from tractor-trailer with small receiving streams/tributaries (medium) ▪ Little likelihood of a release, no reported releases (low) ▪ Ease of travel/transport - road crossing streams, few structural controls in place (high) <p>Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake within 7 stream miles (high) ▪ Toxicity- acute, chemicals from transport trucks (high) <p>Overall Risk Potential = High</p>

Appendix B. Newton County Water System Source Water Assessment Contaminant Inventory for Cornish Creek

OMZ (20 MILE RADIUS)		
POTENTIAL SOURCE	RELEASE POTENTIAL	RISK
<p><i>Nonpoint Source - Agricultural Area</i></p>	<p>Utilizing Supplemental Guidance for Nonpoint Sources:</p> <ul style="list-style-type: none"> ▪ Some BMPs in place but not always properly implemented, ▪ Moderate livestock density, moderate topography, some buffers in place, ▪ Moderate pesticide use (medium) <p>Overall Release Potential = Medium</p>	<p>Utilizing Supplemental Guidance for Nonpoint Sources:</p> <ul style="list-style-type: none"> ▪ Agricultural area throughout intake watershed, ▪ Immediate proximity of surface water, medium density ag area ▪ Moderate toxicity <p>Overall Risk Potential = Medium</p>
<p><i>Roads adjacent to or bridges over streams</i></p> <p>PRIMARY ROADS:</p> <p>STATE HWY 138 (x2 crossings)</p>	<ul style="list-style-type: none"> ▪ Distance from surface water = within 500 feet (high) ▪ Low density of secondary road crossings (2) (medium) ▪ Volume of release = 1,000 – 10,000 gallons, potential from tractor-trailer with small receiving streams/tributaries (medium) ▪ Duration of release - little likelihood of a release, no reported releases (low) ▪ Ease of travel/transport - road crossing streams, few structural controls in place (high) <p>Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake = 7.9 miles (medium) ▪ Toxicity - acute, chemicals from transport trucks (high) <p>Overall Risk Potential = High</p>

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<p>SECONDARY ROADS, PAVED</p>	<ul style="list-style-type: none"> ▪ Distance from surface water = within 500 feet (high) ▪ Low density of secondary road crossings (3) (medium) ▪ Volume of release = 1,000 – 10,000 gallons, potential from tractor-trailer with small receiving streams/tributaries (medium) ▪ Little likelihood of a release, no reported releases (low) ▪ Ease of travel/transport - road crossing streams, few structural controls in place (high) <p>Overall Release Potential = Medium</p>	<ul style="list-style-type: none"> ▪ Distance from surface water intake within 7 stream miles (high) ▪ Toxicity- acute, chemicals from transport trucks (high) <p>Overall Risk Potential = High</p>
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